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OM nucleic - nucleic search, using sw model

Run on: August 26, 2005, 18:32:17 ; Search time 392.974 Seconds
(without alignments)
2797.232 Million cell updates/sec

Title: US-10-617-978-14_COPY_73_240
Perfect score: 168
Sequence: 1 ccgggaactaccactga.....atgagaactgaaggtctga 168

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 7331713 seqs, 3271544945 residues

Word size : 0
Total number of hits satisfying chosen parameters: 14663426

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq.*
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- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*
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- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq.*
- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq.*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq.*
- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq.*
- 17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq.*
- 18: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq.*
- 19: /cgn2_6/ptodata/2/pubpna/US10G_PUBCOMB.seq.*
- 20: /cgn2_6/ptodata/2/pubpna/US10H_PUBCOMB.seq.*
- 21: /cgn2_6/ptodata/2/pubpna/US10I_PUBCOMB.seq.*
- 22: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
- 23: /cgn2_6/ptodata/2/pubpna/US11A_PUBCOMB.seq.*
- 24: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
- 25: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
- 26: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	19	11.3	665	13	US-10-027-632-210235
2	19	11.3	665	17	US-10-027-632-210235
3	19	11.3	143412	13	US-10-087-192-997
4	18	10.7	195	21	US-10-721-793-139
5	18	10.7	195	21	US-10-721-793-143
6	18	10.7	195	21	US-10-721-793-147
7	18	10.7	195	21	US-10-721-793-167

RESULT 1

US-10-027-632-210235
; Sequence 210235, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; POLYMORPHISMS IN THE HUMAN GENOME
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: fastseq for Windows Version 4.0
; SEQ ID NO 210235
; LENGTH: 665
; TYPE: DNA

ALIGNMENTS

US-10-027-632-210235

195 21 US-10-721-793-171 Sequence 171, App

198 21 US-10-721-793-155 Sequence 155, App

198 21 US-10-721-793-159 Sequence 159, App

198 21 US-10-721-793-163 Sequence 163, App

272 18 US-10-424-599-13962 Sequence 13962, A

319 21 US-10-721-793-153 Sequence 153, App

323 21 US-10-721-793-137 Sequence 137, App

323 21 US-10-721-793-141 Sequence 141, App

323 21 US-10-721-793-145 Sequence 145, App

323 21 US-10-721-793-157 Sequence 157, App

323 21 US-10-721-793-161 Sequence 161, App

323 21 US-10-721-793-169 Sequence 169, App

323 21 US-10-721-793-165 Sequence 165, App

3312 13 US-10-027-632-113132 Sequence 113132, A

3312 17 US-10-027-632-113132 Sequence 113132, A

4790 17 US-10-291-172-523 Sequence 523, App

4790 18 US-10-221-278-523 Sequence 523, App

5587 17 US-10-085-198-59 Sequence 59, Appl

6846 20 US-10-723-860-3132 Sequence 3132, Ap

6846 22 US-10-756-149-2924 Sequence 2924, Ap

7037 15 US-10-119-926-106 Sequence 106, App

7037 17 US-10-291-172-147 Sequence 147, App

7037 18 US-10-321-278-147 Sequence 147, App

7132 13 US-10-044-090-780 Sequence 780, App

7974 19 US-10-480-172-5 Sequence 5, Appli

396 9 US-09-825-294-93 Sequence 93, Appl

396 9 US-09-970-966-93 Sequence 93, Appl

396 15 US-10-212-677-93 Sequence 93, Appl

396 17 US-10-361-811-93 Sequence 93, Appl

396 17 US-10-369-186-93 Sequence 93, Appl

427 19 US-10-674-124A-5885 Sequence 5885, Ap

468 15 US-10-338-694-25 Sequence 25, Appl

489 17 US-10-242-535A-27823 Sequence 27823, A

489 18 US-10-085-783A-27823 Sequence 27823, A

600 22 US-10-972-079-80648 Sequence 80648, A

758 9 US-09-910-943-462 Sequence 256780, App

963 13 US-10-027-632-256780 Sequence 256780, App

963 17 US-10-027-632-256780 Sequence 256780, App

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; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(665)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-210235

Query Match      11.3%; Score 19; DB 13; Length 665;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 133 TGTGAATTTCTGAAGGATG 151
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Db 347 TGTGAATTTCTGAAGGATG 365

RESULT 2
US-10-027-632-210235
; Sequence 210235, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 10827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 210235
; LENGTH: 665
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(665)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-210235

Query Match      11.3%; Score 19; DB 17; Length 665;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 133 TGTGAATTTCTGAAGGATG 151
      |||||||
Db 347 TGTGAATTTCTGAAGGATG 365

RESULT 3
US-10-087-192-997/c
; Sequence 997, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192

; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(143412)
; OTHER INFORMATION: n = A,T,C or G
US-10-087-192-997

Query Match      11.3%; Score 19; DB 13; Length 143412;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 118 GCCTTCCAATGCTGGTGTG 136
      |||||||
Db 129843 GCCTTCCAATGCTGGTGTG 129825

RESULT 4
US-10-721-793-139
; Sequence 139, Application US/10721793
; Publication No. US2005006531A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrula Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; TITLE OF INVENTION: Venom of Scorpions of the Genus Centruroides
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 139
; LENGTH: 195
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(195)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; TITLE: that recognize Na+-channels
; JOURNAL: Toxinon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)...(195)
US-10-721-793-139

Query Match      10.7%; Score 18; DB 21; Length 195;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 102 TTACGGGTATTGCTACGC 119
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Db 111 TTACGGGTATTGCTACGC 128

RESULT 5

US-10-721-793-143
; Sequence 143, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrula Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; TITLE OF INVENTION: Venom of Scorpions of the Genus Centruroides
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 143
; LENGTH: 195
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(195)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; TITLE: that recognize Na+-channels
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(195)
US-10-721-793-143

Query Match 10.7%; Score 18; DB 21; Length 195;
Best Local Similarity 100.0%; Pred. No. 5.5; Mismatches 0; Indels 0; Gaps 0;
Matches 18; Conservative 0;

Qy 102 TTACGGGTATTGCTACGC 119

Db 111 TTACGGGTATTGCTACGC 128

RESULT 6

US-10-721-793-147
; Sequence 147, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrula Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; TITLE OF INVENTION: Venom of Scorpions of the Genus Centruroides
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 147
; LENGTH: 195
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(195)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; TITLE: that recognize Na+-channels
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(195)
US-10-721-793-147

Query Match 10.7%; Score 18; DB 21; Length 195;
Best Local Similarity 100.0%; Pred. No. 5.5; Mismatches 0; Indels 0; Gaps 0;
Matches 18; Conservative 0;

Qy 102 TTACGGGTATTGCTACGC 119

Db 111 TTACGGGTATTGCTACGC 128

RESULT 7

US-10-721-793-167
; Sequence 167, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrula Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; TITLE OF INVENTION: Venom of Scorpions of the Genus Centruroides
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 167
; LENGTH: 195
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(195)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; TITLE: that recognize Na+-channels
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(195)
US-10-721-793-167

Query Match 10.7%; Score 18; DB 21; Length 195;
Best Local Similarity 100.0%; Pred. No. 5.5;

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Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 102 TTACGGGTATTGCTACGC 119
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Db 111 TTACGGGTATTGCTACGC 128

RESULT 8
US-10-721-793-171
; Sequence 171, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721.793
; PRIORITY FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 171
; LENGTH: 195
; TYPE: DNA
; ORGANISM: Centruiroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(195)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruiroides sculpturatus Ewing,
; TITLE: that recognize Na+-channels
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(195)
;
Query Match 10.7%; Score 18; DB 21; Length 195;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 102 TTACGGGTATTGCTACGC 119
   |||||
Db 111 TTACGGGTATTGCTACGC 128

RESULT 9
US-10-721-793-155
; Sequence 155, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721.793
; PRIORITY FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 159
; LENGTH: 198
; TYPE: DNA
; ORGANISM: Centruiroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(198)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruiroides sculpturatus Ewing,
; TITLE: that recognize Na+-channels
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(198)
;
Query Match 10.7%; Score 18; DB 21; Length 195;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 102 TTACGGGTATTGCTACGC 119
   |||||
Db 111 TTACGGGTATTGCTACGC 128

RESULT 10
US-10-721-793-159
; Sequence 159, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721.793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 159
; LENGTH: 198
; TYPE: DNA
; ORGANISM: Centruiroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(198)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruiroides sculpturatus Ewing,
; TITLE: that recognize Na+-channels
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(198)
;
Query Match 10.7%; Score 18; DB 21; Length 198;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 102 TTACGGGTATTGCTACGC 119
   |||||
Db 111 TTACGGGTATTGCTACGC 128
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Query Match 10.7%; Score 18; DB 21; Length 319;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 102 TTACGGGTATTGCTACGC 119
Db 168 TTACGGGTATTGCTACGC 185

RESULT 14

US-10-721-793-137
; Sequence 137, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; TITLE OF INVENTION: Venom of Scorpions of the Genus Centruroides
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 137
; LENGTH: 323
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (5)..(265)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin precursor
; OTHER INFORMATION: In the mature peptide, the last Cys is amidated, and the last Gly
; OTHER INFORMATION: and the last 2 basic aminoacids are cut
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: (269)..(323)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(4)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: (62)..()
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: (5)..(61)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: (269)..(323)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(4)
; OTHER INFORMATION:
; NAME/KEY: mat_peptide
; LOCATION: (62)..()
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: (5)..(61)
; OTHER INFORMATION:
; OTHER INFORMATION:
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; TITLE: that recognize Na+-channels
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (5)..(265)

Query Match 10.7%; Score 18; DB 21; Length 323;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 102 TTACGGGTATTGCTACGC 119
Db 172 TTACGGGTATTGCTACGC 189

RESULT 15

US-10-721-793-141
; Sequence 141, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; TITLE OF INVENTION: Venom of Scorpions of the Genus Centruroides
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 141
; LENGTH: 323
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (5)..(265)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin precursor
; OTHER INFORMATION: In the mature peptide, the last Cys is amidated, and the last Gly
; OTHER INFORMATION: and the last 2 basic aminoacids are cut
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: (62)..()
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: (5)..(61)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: (269)..(323)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(4)
; OTHER INFORMATION:
; OTHER INFORMATION:
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; TITLE: that recognize Na+-channels
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (5)..(265)

Query Match 10.7%; Score 18; DB 21; Length 323;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 102 TTACGGGTATTGCTACGC 119
Db 172 TTACGGGTATTGCTACGC 189

Search completed: August 26, 2005, 21:08:03
Job time : 395.974 secs

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C 2	17	10.1	396	4	US-09-713-550-93	Sequence 93,	Appl
C 3	17	10.1	396	4	US-09-825-294-93	Sequence 93,	Appl
C 4	17	10.1	396	4	US-09-970-966-93	Sequence 93,	Appl
C 5	17	10.1	1083	4	US-09-602-777A-259	Sequence 259,	App
C 6	17	10.1	3662	4	US-09-907-794A-289	Sequence 289,	App
C 7	17	10.1	3662	4	US-09-905-125A-289	Sequence 289,	App
C 8	17	10.1	3662	4	US-09-902-775A-289	Sequence 289,	App
C 9	17	10.1	3662	4	US-09-906-700-289	Sequence 289,	App
C 10	17	10.1	3662	4	US-09-903-603A-289	Sequence 289,	App
C 11	17	10.1	3662	4	US-09-904-920A-289	Sequence 289,	App
C 12	17	10.1	3662	4	US-09-909-064-289	Sequence 289,	App
C 13	17	10.1	3662	4	US-09-905-381A-289	Sequence 289,	App
C 14	17	10.1	3662	4	US-09-906-618-289	Sequence 289,	App
C 15	17	10.1	4053	4	US-09-907-794A-293	Sequence 293,	App
C 16	17	10.1	4053	4	US-09-905-125A-293	Sequence 293,	App
C 17	17	10.1	4053	4	US-09-902-775A-293	Sequence 293,	App
C 18	17	10.1	4053	4	US-09-906-700-293	Sequence 293,	App
C 19	17	10.1	4053	4	US-09-903-603A-293	Sequence 293,	App
C 20	17	10.1	4053	4	US-09-904-920A-293	Sequence 293,	App
C 21	17	10.1	4053	4	US-09-909-064-293	Sequence 293,	App
C 22	17	10.1	4053	4	US-09-905-381A-293	Sequence 293,	App
C 23	17	10.1	4053	4	US-09-906-618-293	Sequence 293,	App
C 24	17	10.1	145241	4	US-09-949-016-17394	Sequence 17394,	A
C 25	17	10.1	145241	4	US-09-949-016-17395	Sequence 17395,	A
C 26	16	9.5	601	4	US-09-949-016-157499	Sequence 157499,	
C 27	16	9.5	601	4	US-09-949-016-157606	Sequence 157606,	

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; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(396)
; OTHER INFORMATION: n = A,T,C or G
US-09-713-550-93

Query Match      10.1%; Score 17; DB 4; Length 396;
Best Local Similarity 100.0%; Pred. No. 9.8;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 140 TTCTGAAGGATGAGAAC 156
Db 199 TTCTGAAGGATGAGAAC 183

RESULT 3
US-09-825-294-93/c
; Sequence 93, Application US/09825294
; Patent No. 6710170
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Stolk, John A.
; APPLICANT: Algate, Paul A.
; APPLICANT: Fling, Steven P.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.484C5
; CURRENT APPLICATION NUMBER: US/09/825,294
; CURRENT FILING DATE: 2001-04-03
; NUMBER OF SEQ ID NOS: 215
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 93
; LENGTH: 396
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(396)
; OTHER INFORMATION: n = A,T,C or G
US-09-825-294-93

Query Match      10.1%; Score 17; DB 4; Length 396;
Best Local Similarity 100.0%; Pred. No. 9.8;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 140 TTCTGAAGGATGAGAAC 156
Db 199 TTCTGAAGGATGAGAAC 183

RESULT 4
US-09-970-966-93/c
; Sequence 93, Application US/09970966
; Patent No. 6720146
; GENERAL INFORMATION:
; APPLICANT: Stolk, John A.
; APPLICANT: Molesh, David Alan
; APPLICANT: Fling, Steven P.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.484C6
; CURRENT APPLICATION NUMBER: US/09/370,966
; CURRENT FILING DATE: 2001-10-02
; NUMBER OF SEQ ID NOS: 215
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 93
; LENGTH: 396
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(396)
; OTHER INFORMATION: n = A,T,C or G
US-09-970-966-93

Query Match      10.1%; Score 17; DB 4; Length 396;
Best Local Similarity 100.0%; Pred. No. 9.8;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 140 TTCTGAAGGATGAGAAC 156
Db 199 TTCTGAAGGATGAGAAC 183

RESULT 5
US-09-602-777A-259/c
; Sequence 259, Application US/09602777A
; Patent No. 6831165
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauser, Gregor
; TITLE OF INVENTION: CORVNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; TITLE OF INVENTION: INVOLVED IN HOMEOSTASIS AND ADAPTATION
; FILE REFERENCE: BGI-128CP
; CURRENT APPLICATION NUMBER: US/09/602,777A
; CURRENT FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: DE 19931636.8
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19932125.6
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932126.4
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932127.2
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932128.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932129.9
; PRIOR FILING DATE: 1999-07-19
; PRIOR APPLICATION NUMBER: DE 19932226.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932920.6
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932922.2
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932924.9
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932928.1
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932930.3
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932933.8
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932935.4
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932973.7
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933002.6
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933003.4
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933005.0
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933006.9
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19941378.9
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941379.7
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941390.8
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; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941391.6
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19942088.2
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 442
; SEQ ID NO 259
; LENGTH: 1083
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (101)..(1060)
; OTHER INFORMATION: RXN01466
US-09-602-777A-259

Query Match 10.1%; Score 17; DB 4; Length 1083;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 118 GCCTTCCCAATGCTGGT 134
DB 877 GCCTTCCCAATGCTGGT 861

RESULT 6

US-09-907-794A-289/c
; Sequence 289, Application US/09907794A
; Patent No. 6635468

GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090

;
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 289
; LENGTH: 3662
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-907-794A-289

Query Match 10.1%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 140 TTCTGAGGATGAGAAC 156
DB 2818 TTCTGAGGATGAGAAC 2802

RESULT 7

US-09-905-125A-289/c
; Sequence 289, Application US/09905125A
; Patent No. 6664376

GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 289
; LENGTH: 3662
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-905-125A-289

Query Match 10.1%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 140 TTCTGAGGATGAGAAC 156
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Db 2818 TTCTGAGGATGAGAAC 2802

RESULT 8
US-09-902-775A-289/c
; Sequence 289, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Foag, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 289
; LENGTH: 3662
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-902-775A-289

Query Match 10.1%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 140 TTCTGAGGATGAGAAC 156
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Db 2818 TTCTGAGGATGAGAAC 2802

RESULT 9
US-09-906-700-289/c
; Sequence 289, Application US/09906700
; Patent No. 6723535
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906,700
CURRENT FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 289
LENGTH: 3662
TYPE: DNA
ORGANISM: Homo Sapien
US-09-906-700-289

Query Match 10.1%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 140 TTCTGAGGATGAGAAC 156
DB 2818 TTCTGAGGATGAGAAC 2802

RESULT 10
US-09-903-603A-289/c
Sequence 289 Application US/09903603A
Patent No. 6767995
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: GNE.16182C12
CURRENT APPLICATION NUMBER: US/09/903,603A
CURRENT FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
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PRIOR APPLICATION NUMBER: PCT/US99/28564
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PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 289
LENGTH: 3662
TYPE: DNA

; ORGANISM: Homo Sapien
US-09-903-603A-289

Query Match 10.1%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 140 TTCTGAAGGATGAGAAC 156
|||||
Db 2818 TTCTGAAGGATGAGAAC 2802

RESULT 11

US-09-904-920A-289/c

; Sequence 289, Application US/09904920A
; Patent No. 6806352

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/904,920A

; PRIOR FILING DATE: 2001-07-13

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05

; PRIOR APPLICATION NUMBER: PCT/US99/28214

; PRIOR FILING DATE: 1999-11-29

; PRIOR APPLICATION NUMBER: PCT/US99/28313

; PRIOR FILING DATE: 1999-11-30

; PRIOR APPLICATION NUMBER: PCT/US99/28564

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/28565

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 289
; LENGTH: 3662
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-904-920A-289

Query Match 10.1%; Score 17; DB 4; Length 3662;

Best Local Similarity 100.0%; Pred. No. 11;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 140 TTCTGAAGGATGAGAAC 156
|||||
Db 2818 TTCTGAAGGATGAGAAC 2802

RESULT 12

US-09-909-064-289/c

; Sequence 289, Application US/09909064

; Patent No. 6818449

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/909,064

; PRIOR FILING DATE: 2001-07-18

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 289
;; LENGTH: 3662
;; TYPE: DNA
;; ORGANISM: Homo Sapien
US-09-909-064-289

Query Match 10.1%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 140 TTCTGAAGGATGAGAAC 156
|||||
DB 2818 TTCTGAAGGATGAGAAC 2802

RESULT 13
US-09-905-381A-289/c
; Sequence 289, Application US/09905381A
; Patent No. 6818746
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Acids Encoding and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22

;; PRIOR APPLICATION NUMBER: US 60/143,048
;; PRIOR FILING DATE: 1999-07-07
;; PRIOR APPLICATION NUMBER: US 60/145,698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: US 60/146,222
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/20944
;; PRIOR FILING DATE: 1999-09-13
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 289
;; LENGTH: 3662
;; TYPE: DNA
;; ORGANISM: Homo Sapien
US-09-905-381A-289

Query Match 10.1%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 140 TTCTGAAGGATGAGAAC 156
|||||
DB 2818 TTCTGAAGGATGAGAAC 2802

RESULT 14
US-09-906-618-289/c
; Sequence 289, Application US/09906618
; Patent No. 6828146
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.

Job time : 114.513 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 26, 2005, 18:43:08 ; Search time 308.243 Seconds
(without alignments)
3256.399 Million cell updates/sec

Title: US-10-617-978-14_COPY_73_240
Perfect score: 168
Sequence: 1 ccgggaactaccacttga.....atgagaacgtgaaggtctga 168

Scoring table: OLIGO NUC
Gapop_60.0 , Gapext 60.0

Searched: 4390206 seqs, 2959870667 residues

Word size : 0

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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- 2: Geneseqn1990s.*
- 3: Geneseqn2000s.*
- 4: Geneseqn2001as.*
- 5: Geneseqn2001bs.*
- 6: Geneseqn2002as.*
- 7: Geneseqn2002bs.*
- 8: Geneseqn2003as.*
- 9: Geneseqn2003bs.*
- 10: Geneseqn2003cs.*
- 11: Geneseqn2003ds.*
- 12: Geneseqn2004as.*
- 13: Geneseqn2004bs.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	19	11.3	143412	11 ACN44512	Acn44512 Mouse gen
2	18	10.7	2365	13 ADQ85216	Adq85216 Human tum
3	18	10.7	3408	10 ADH73022	Adh73022 Human MEG
C 4	18	10.7	3408	10 ADH73024	Adh73024 Human MEG
5	18	10.7	3909	10 ADI60469	Adi60469 Secreted
6	18	10.7	4790	5 AAS45254	Aas45254 cDNA enco
7	18	10.7	5587	6 ADH48775	Adh48775 NOV25 cod
8	18	10.7	5715	10 ADH73025	Adh73025 Human MEG
9	18	10.7	6846	12 ADN04593	Adn04593 Antipsori
10	18	10.7	6846	12 ADQ20312	Adq20312 Human sof
11	18	10.7	7037	5 AAS45066	Aas45066 cDNA enco
12	18	10.7	7132	8 ABX63780	Abx63780 Human cDN
13	18	10.7	7973	10 ADD93418	Add93418 Human lip
14	18	10.7	7974	8 AAF94370	Aaf94370 Human LP2
C 15	17	10.1	396	4 AAF94902	Aaf94902 Human ova
C 16	17	10.1	396	6 ABL48852	Abi48852 Ovarian c
C 17	17	10.1	396	6 ABT03169	Abt03169 Human ova
C 18	17	10.1	396	11 ADM10762	Adm10762 Human ova
C 19	17	10.1	396	12 ADJ11092	Adj11092 Represent
C 20	17	10.1	396	12 ADM43353	Adm43353 Human ova

21	17	10.1	468	10 AAD62548	Aad62548 Human T1R
C 22	17	10.1	758	6 ABS77229	Abx77229 Frog embr
C 23	17	10.1	812	3 AAZ89353	Aaz89353 Human 18
C 24	17	10.1	1014	5 AAH67435	Aah67435 C glutami
C 25	17	10.1	1083	4 AAF71267	Aaf71267 Corynebac
26	17	10.1	1350	8 ACA01824	Aca01824 C. glutam
C 27	17	10.1	1353	5 AAH65015	Aah65015 C glutami
C 28	17	10.1	1784	10 ADI02464	Adi02464 Human cDN
C 29	17	10.1	2500	4 AAK94785	Aak94785 Human ful
C 30	17	10.1	2500	12 ADL31859	Adl31859 Full leng
C 31	17	10.1	2667	4 ABA06424	Abx06424 Human cDN
C 32	17	10.1	2667	6 ABV83761	Abv83761 Human pol
C 33	17	10.1	2690	4 AAS28803	Aas28803 Human inn
C 34	17	10.1	2690	10 ADB31528	Adb31528 Human cDN
C 35	17	10.1	3024	12 ADQ67269	Adq67269 Novel hum
C 36	17	10.1	3598	2 AAX37725	Aax37725 Human PRO
C 37	17	10.1	3662	2 AAX52264	Aax52264 Protein P
C 38	17	10.1	3662	3 AAZ52206	Aaz52206 Human PRO
C 39	17	10.1	3662	3 ADC78601	Aad78601 Human PRO
C 40	17	10.1	3662	4 AAF72422	Aaf72422 Human PRO
C 41	17	10.1	3662	4 AAS00161	Aas00161 Human cDN
C 42	17	10.1	3662	8 ACA60239	Acx60239 Human cDN
C 43	17	10.1	3662	8 ACD07639	Acx07639 Novel hum
C 44	17	10.1	3662	8 ABX71687	Abx71687 Human cDN
C 45	17	10.1	3662	8 ACH07019	Ach07019 Human sec

ALIGNMENTS

RESULT 1

ACN44512/c
ID ACN44512 standard; DNA; 143412 BP.

XX ACN44512;

DT 18-NOV-2004 (first entry)

XX Mouse genomic sequence MCG20543.

XX Cytostatic; carcinoma; lymphoma; cancer; murine; gene; SB.

XX Mus musculus.

PN WO2003073826-A2.

PD 12-SEP-2003.

XX 28-FEB-2003; 2003WO-US006235.

PR 01-MAR-2002; 2002US-00087192.

XX (SAGR-) SAGRES DISCOVERY.

XX Morris DW;

XX WPI; 2003-328604/31.

PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma comprises a nucleotide sequence.

XX Claim 1; SEQ ID NO 997; Opp; English.

CC The present invention relates to novel DNA and protein sequences which are associated with carcinomas. The sequences are useful for: (i) for screening drug candidates; (ii) for screening of bioactive agent capable of binding to Carcinoma Associated Protein (CAP); (iii) for screening of a bioactive agent capable of modulating the activity of CAP; (iv) for evaluating the effect of a candidate carcinoma drug; (v) for diagnosing carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip; (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for determining Carcinoma Associated (CA) gene copy number. In addition, the

CC CA genes are useful as DNA vaccines and the CAP are useful as markers of
CC carcinoma including lymphoma. The present sequence is one such CA coding
CC sequence. Note: This patent is an equivalent to basic patent
CC US2002182586A1, for which no sequence data was published
XX
SQ Sequence 143412 BP; 33078 A; 32311 C; 33212 G; 34277 T; 0 U; 10534 Other;

Query Match 11.3%; Score 19; DB 11; Length 143412;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 118 GCCTTCCCAATGCTGCTGG 136
Db 129843 GCCTTCCCAATGCTGCTGG 129825

RESULT 2
ADQ85216
ID ADQ85216 standard; cDNA; 2365 BP.
AC ADQ85216;
XX
DT 07-OCT-2004 (first entry)
XX
DE Human tumour-associated antigenic target (TAT) cDNA sequence #2030.
XX
KW human; tumour-associated antigenic target; TAT; cytostatic; gene therapy;
KW cancer; cell proliferative disorder; gene; ss.
XX
OS Homo sapiens;
XX
PN W02004060270-A2.
XX
PD 22-JUL-2004.
XX
PF 15-OCT-2003; 2003WO-US029126.
XX
PR 18-OCT-2002; 2002US-0418988P.
XX
PA (GETH) GENENTECH INC.
PA (WUTD/) WU T D.
PA (ZHOU/) ZHOU Y.
XX
PI Wu TD, Zhou Y;
XX
WPI; 2004-534300/51.
XX
New nucleic acid molecule and encoded polypeptide, for diagnosing,
preventing or treating cell proliferative disorders such as cancer.
XX
PS Claim 1; SEQ ID NO 2030; 5504pp; English.
XX
XX The present invention describes an isolated tumour-associated antigenic
target (TAT) nucleic acid comprising: (a) any of 4622 nucleotide
sequences (see SEQ ID NO:1 to 4622); (b) the full-length coding region of
(a); (c) the complement of (a) or (b); (d) a sequence that has 80%
sequence identity to (a)-(c); or (e) a sequence that hybridises to (a)-
(c). Also described: (1) an expression vector comprising the above
nucleic acid; (2) a host cell comprising the above expression vector; (3)
a process for producing a polypeptide; (4) an isolated polypeptide
comprising: (a) an amino acid sequence encoded by any of the above
nucleotide sequences; (b) an amino acid sequence encoded by the full-
length coding region of the above nucleotide sequences; or (c) a sequence
having at least 80% identical to (a) or (b); (5) a chimeric polypeptide
comprising the above polypeptide fused to a heterologous polypeptide; (6)
an isolated antibody that binds to the above polypeptide; (7) a process
for producing the antibody; (8) an isolated oligopeptide that binds to
the above polypeptide; (9) a tumour-associated antigenic target (TAT)
binding organic molecule that binds to the above polypeptide; (10) a
composition of matter comprising the above (chimeric) polypeptide,
antibody, oligopeptide or TAT binding organic molecule, in combination
with a carrier; (11) an article of manufacture comprising a container and
the composition of matter contained within the container; (12) methods of

CC inhibiting the growth of a cell that expresses the above protein, where
CC the growth of the cell is at least in part dependent upon a growth
CC potentiating effect of the above protein; (13) a method of
CC therapeutically treating a mammal having a cancerous tumour comprising
CC cells that express the above protein; (14) a method of determining the
CC presence of a protein in a sample suspected of containing the protein
CC described above; (15) methods of diagnosing the presence of a tumour in a
CC mammal; (16) a method for treating or preventing a cell proliferative
CC disorder associated with increased expression or activity of the above
CC protein; and (17) a method of binding an antibody, oligopeptide or
CC organic molecule to a cell that expresses the protein described above.
CC The TAT sequences have cytostatic activities, and can be used in gene
CC therapy. The composition and methods are useful for diagnosing,
CC preventing or treating cancer. The composition is also used for preparing
CC a medicament for the therapeutic treatment or diagnostic detection of a
CC cell proliferative disorder or cancer. The present sequence represents a
CC human TAT cDNA sequence from the present invention.
XX
SQ Sequence 2365 BP; 554 A; 656 C; 684 G; 471 T; 0 U; 0 Other;

Query Match 10.7%; Score 18; DB 13; Length 2365;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 121 TTCCAATGCTGCTGTGAA 138
Db 367 TTCCAATGCTGCTGTGAA 384

RESULT 3
ADH73022
ID ADH73022 standard; cDNA; 3408 BP.
XX
AC ADH73022;
XX
DT 25-MAR-2004 (first entry)
XX
DE Human MEGF7-related cDNA sequence SeqId1.
XX
KW MEGF7; epidermal growth factor-like domain; low density lipoprotein;
KW LDL receptor-like protein; gene therapy; protein therapy;
KW MEGF7 expression; gene; ss; human.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 1..3408
FT /tag= a
FT /product= "Human MEGF7-related protein SeqId2"
FT /partial
FT /note= "No stop codon"
XX
XX GB2381790-A.
XX
PD 14-MAY-2003.
XX
PF 26-SEP-2002; 2002GB-00022372.
XX
PR 26-SEP-2001; 2001GB-00023124.
PR 26-JUN-2002; 2002GB-00014703.
XX
PA (GLAX) GLAXO GROUP LTD.
XX
XX Volpe F;
PI WPI; 2003-432835/41.
XX
DR P-PSDB; ADH73023.
XX
PT Novel isolated human MEGF7 polypeptide, a polypeptide having multiple
PT epidermal growth factor-like domains, useful in diagnostic assays for
PT detecting diseases associated with inappropriate MEGF7 activity or
PT levels.
XX

PS Disclosure; SEQ ID NO 1; 47pp; English.

XX This invention relates to a novel human MEGF7 polypeptide (a polypeptide

CC having multiple epidermal growth factor-like domains, including an

CC unidentified low density lipoprotein (LDL) receptor-like protein). The

CC sequences of the invention may be useful for gene therapy or protein

CC therapy or for the modulation of MEGF7 expression and activity. The

CC invention may be useful for the development of methods to diagnose or

CC treat diseases associated with inappropriate MEGF7 activity or levels.

CC The polypeptides and polynucleotides are also useful for configuring

CC screening methods for detecting the effect of added compounds on the

CC production of mRNA and polypeptide in cells. The polynucleotides are also

CC useful as diagnostic reagents, through detecting mutations in the

CC associated gene. The polynucleotide sequence is useful for chromosome

CC localisation studies and tissue expression studies. The present sequence

CC is that of a cDNA sequence which is related to the invention.

XX

SQ Sequence 3408 BP; 752 A; 943 C; 1028 G; 685 T; 0 U; 0 Other;

Query Match 10.7%; Score 18; DB 10; Length 3408;

Best Local Similarity 100.0%; Pred. No. 12;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 121 TTCCAATGCTGCTGTGAA 138

|||||

DB 1411 TTCCAATGCTGCTGTGAA 1428

|||||

RESULT 4

ADH73024/c

ID ADH73024 standard; DNA; 3408 BP.

XX

AC ADH73024;

XX

DT 25-WAR-2004 (first entry)

XX

DE Human MEGF7-related DNA sequence SeqID3.

XX

KW MEGF7; epidermal growth factor-like domain; low density lipoprotein;

KW LDL receptor-like protein; gene therapy; protein therapy;

KW MEGF7 expression; ds; human.

XX

OS Homo sapiens.

XX

PN GB2381790-A.

XX

PD 14-MAY-2003.

XX

PF 26-SEP-2002; 2002GB-00022372.

XX

PR 26-SEP-2001; 2001GB-00023124.

PR 26-JUN-2002; 2002GB-00014703.

XX

PA (GLAX) GLAXO GROUP LTD.

XX

PI Volpe F;

XX

DR WPI; 2003-432835/41.

XX

PT Novel isolated human MEGF7 polypeptide, a polypeptide having multiple

PT epidermal growth factor-like domains, useful in diagnostic assays for

PT detecting diseases associated with inappropriate MEGF7 activity or

PT levels.

XX

PS Disclosure; SEQ ID NO 3; 47pp; English.

XX

CC This invention relates to a novel human MEGF7 polypeptide (a polypeptide

CC having multiple epidermal growth factor-like domains, including an

CC unidentified low density lipoprotein (LDL) receptor-like protein). The

CC sequences of the invention may be useful for gene therapy or protein

CC therapy or for the modulation of MEGF7 expression and activity. The

CC invention may be useful for the development of methods to diagnose or

CC treat diseases associated with inappropriate MEGF7 activity or levels.

XX

SQ Sequence 3408 BP; 752 A; 943 C; 1028 G; 685 T; 0 U; 0 Other;

Query Match 10.7%; Score 18; DB 10; Length 3408;

Best Local Similarity 100.0%; Pred. No. 12;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 121 TTCCAATGCTGCTGTGAA 138

|||||

DB 1411 TTCCAATGCTGCTGTGAA 1428

|||||

RESULT 5

ADI60469

ID ADI60469 standard; DNA; 3909 BP.

XX

AC ADI60469;

XX

DT 15-APR-2004 (first entry)

XX

DE Secreted polypeptide encoding gene #8.

XX

KW ds; gene; osteopathic; vulnery; cytostatic; gene therapy; diagnosis;

KW forensics; gene mapping; mutation identification; biodiversity;

KW chromosome marker; immune response; myeloid cell disorder;

KW lymphoid cell disorder; bone cartilage; tendon; ligament;

KW nerve tissue growth; wound healing; burns; incision; ulcer; cancer.

XX

OS Homo sapiens.

XX

PN WO2003025142-A2.

XX

PD 27-MAR-2003.

XX

PF 18-SEP-2002; 2002WO-US029636.

XX

PR 18-SEP-2001; 2001US-0323349P.

PR 16-SEP-2002; 2002US-00323349.

XX

PA (HYSE-) HYSEQ INC.

XX

PI Tang YT, Asundi V, Goodrich RW, Ren F, Zhang J, Zhao QA, Wang J;

PI Ghosh M, Xue AJ, Wehrman T, Weng G, Zhou P, Drmanac RT;

XX

DR WPI; 2003-354601/33.

DR P-PSDB; ADI60124.

XX

PT New polynucleotides and secreted proteins, useful for treating myeloid or

PT lymphoid cell disorders, in bone cartilage, tendon, ligament and nerve

PT tissue growth or regeneration, in wound healing, and in tissue repair and

PT replacement.

XX

PS Claim 1; SEQ ID NO 8; 243pp; English.

XX

CC The invention relates to novel isolated polynucleotides or a sequence

CC encoding a polypeptide with biological activity, where the polynucleotide

CC hybridizes to the polynucleotide under stringent hybridization conditions

CC or has greater than 99% sequence identity with the polynucleotide. The

CC polynucleotides and polypeptides are useful in diagnostics, forensics,

CC gene mapping, identification of mutations responsible for genetic

CC disorders and other traits, to assess biodiversity, as nutritional

CC sources or supplements. The polynucleotides may also be used as molecular

CC weight markers, chromosome markers or map related gene positions, or as

CC an antigen to raise anti-DNA antibodies or elicit immune response. The

CC polypeptides are useful for raising antibodies, as markers for tissues in

CC which the corresponding polypeptide is expressed, for re-engineering

CC damaged or diseased tissues, for treating myeloid or lymphoid cell
CC disorders, in bone cartilage, tendon, ligament and/or nerve tissue growth
CC or regeneration, in wound healing, in tissue repair and replacement, in
CC healing of burns, incisions and ulcers, and in treating cancer. This
CC sequence corresponds to a polynucleotide sequence of the invention.
XX
SQ Sequence 3909 BP; 826 A; 1092 C; 1168 G; 823 T; 0 U; 0 Other;

Query Match 10.7%; Score 18; DB 10; Length 3909;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 121 TTCCAATGCTGGTGTGAA 138
|||||
Db 1507 TTCCAATGCTGGTGTGAA 1524

RESULT 6
AAS45254
ID AAS45254 standard; cDNA; 4790 BP.

AC AAS45254;

XX 18-DEC-2001 (first entry)

XX cDNA encoding novel human secretory protein, Seq ID No 523.

XX Human; secreted protein; arthritis; Crohn's disease; sepsis; shock;
KW ischaemia-reperfusion injury; haematopoiesis; cancer; neuropathy;
KW transgenic animal; Alzheimer's disease; Parkinson's disease; burn;
KW amyotrophic lateral sclerosis; platelet disorder; thrombocytopenia;
KW ulcer; osteoporosis; bone degenerative disorder; periodontal disease;
KW gut protection; lung; liver fibrosis; immune deficiency; infection;
KW severe combined immunodeficiency; SCID; autoimmune disorder; allergy;
KW multiple sclerosis; rheumatoid arthritis; diabetes mellitus; asthma;
KW fertility; analgesic; pain; antigen; ss.

XX Homo sapiens.

XX WO200166689-A2.

XX 13-SEP-2001.

XX 05-MAR-2001; 2001WO-US004942.

XX 07-MAR-2000; 2000US-00519705.

XX 19-MAY-2000; 2000US-00574454.

XX 17-JUN-2000; 2000US-00596193.

XX 14-JUL-2000; 2000US-00616847.

XX 19-SEP-2000; 2000US-00665363.

XX 20-OCT-2000; 2000US-00693267.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Liu C, Asundi V, Xu C, Wehrman T, Ren F, Ma Y, Zhou P;

XX Zhao QA, Yang Y, Drmanac RT, Zhang J, Chen R, Xue AJ, Wang J;

XX WPI; 2001-589934/66.

XX P-PSDB; AAU28354.

XX Novel polypeptides and nucleic acids obtained from cDNA libraries

XX prepared from various human tissues, for diagnosis and treatment of

XX cancer, neurological, inflammatory, and autoimmune disorders.

XX Claim 1; SEQ ID NO 523; 107pp; English.

XX The invention relates to novel isolated human secreted polypeptides (I)

XX and polynucleotides (II). (I) and (II) are useful for treating

CC

CC the polypeptide as well as for studying modulators of the polypeptides.

CC (I) induces the proliferation of neural cells and regeneration of nerve

CC and brain tissue and is useful for the treatment of central and

CC peripheral nervous system diseases and neuropathies, such as Alzheimer's,

CC Parkinson's disease, Huntington's disease, and amyotrophic lateral

CC sclerosis. In addition, (I) is involved in chemotactic or chemokinetic

CC activity, regulation of haematopoiesis and is useful for treating myeloid

CC or lymphoid cell disorders, platelet disorders such as thrombocytopenia

CC and for regeneration of bone, cartilage, tendon, ligament and/or nerve

CC tissue growth, and in tissue repair, healing of burns, incisions, ulcers,

CC for treating osteoporosis, osteoarthritis, bone degenerative disorders,

CC or periodontal disease. Furthermore, (I) is also useful for gut

CC protection or regeneration and treatment of lung or liver fibrosis, and

CC reperfusion injury in various tissues, various immune deficiencies and

CC disorders including severe combined immunodeficiency (SCID), bacterial or

CC fungal infections, autoimmune disorders e.g. multiple sclerosis,

CC rheumatoid arthritis, diabetes mellitus, myasthenia gravis, allergic

CC reactions and conditions, such as asthma or other respiratory problems.

CC In addition, (I) affects biorhythms or circadian cycles of rhythms, of

CC fertility, metabolism, catabolism, anabolism, storage or elimination of

CC dietary fat, lipid, protein, carbohydrate, vitamins, minerals, provides

CC analgesic effects or other pain reducing effects, immunoglobulin like

CC activity and can act as an antigen in a vaccine composition to raise an

CC immune response. AAS44920-AAS45295 represent novel human secreted protein

CC coding sequences of the invention

XX

XX SQ Sequence 4790 BP; 1126 A; 1336 C; 1368 G; 960 T; 0 U; 0 Other;

Qy

Db

RESULT 7

ADH48775

ID ADH48775 standard; DNA; 5587 BP.

XX ADH48775;

XX 25-MAR-2004 (first entry)

XX NOV25 coding sequence, SEQ ID 59.

XX Human; NOVX; atherosclerosis; hypertension; obesity; cancer; cytostatic;

XX hypotensive; antiarteriosclerotic; anorectic; gene therapy; NOV25;

XX MSGF7-like protein; chromosome 11; gene; ds; SNP;

XX single nucleotide polymorphism.

XX Homo sapiens.

XX Key

XX Location/Qualifiers

XX replace(1836,T)

XX /*tag= a

XX /standard_name= "Single nucleotide polymorphism"

XX WO200268652-A2.

XX 06-SEP-2002.

XX 26-FEB-2002; 2002WO-US0005910.

XX 26-FEB-2001; 2001US-0271646P.

XX 28-FEB-2001; 2001US-0271840P.

XX 28-FEB-2001; 2001US-0272404P.

XX 28-FEB-2001; 2001US-0272405P.

XX 28-FEB-2001; 2001US-0272410P.

CC creating transgenic animals useful for studying the in vivo activities of

CC the polypeptide as well as for studying modulators of the polypeptides.

CC (I) induces the proliferation of neural cells and regeneration of nerve

CC and brain tissue and is useful for the treatment of central and

CC peripheral nervous system diseases and neuropathies, such as Alzheimer's,

CC Parkinson's disease, Huntington's disease, and amyotrophic lateral

CC sclerosis. In addition, (I) is involved in chemotactic or chemokinetic

CC activity, regulation of haematopoiesis and is useful for treating myeloid

CC or lymphoid cell disorders, platelet disorders such as thrombocytopenia

CC and for regeneration of bone, cartilage, tendon, ligament and/or nerve

CC tissue growth, and in tissue repair, healing of burns, incisions, ulcers,

CC for treating osteoporosis, osteoarthritis, bone degenerative disorders,

CC or periodontal disease. Furthermore, (I) is also useful for gut

CC protection or regeneration and treatment of lung or liver fibrosis, and

CC reperfusion injury in various tissues, various immune deficiencies and

CC disorders including severe combined immunodeficiency (SCID), bacterial or

CC fungal infections, autoimmune disorders e.g. multiple sclerosis,

CC rheumatoid arthritis, diabetes mellitus, myasthenia gravis, allergic

CC reactions and conditions, such as asthma or other respiratory problems.

CC In addition, (I) affects biorhythms or circadian cycles of rhythms, of

CC fertility, metabolism, catabolism, anabolism, storage or elimination of

CC dietary fat, lipid, protein, carbohydrate, vitamins, minerals, provides

CC analgesic effects or other pain reducing effects, immunoglobulin like

CC activity and can act as an antigen in a vaccine composition to raise an

CC immune response. AAS44920-AAS45295 represent novel human secreted protein

CC coding sequences of the invention

XX

XX SQ Sequence 4790 BP; 1126 A; 1336 C; 1368 G; 960 T; 0 U; 0 Other;

Query Match 10.7%; Score 18; DB 5; Length 4790;

Best Local Similarity 100.0%; Pred. No. 12;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 121 TTCCAATGCTGGTGTGAA 138

Db 321 TTCCAATGCTGGTGTGAA 338

```

PR 02-MAR-2001; 2001US-0272922P.
PR 02-MAR-2001; 2001US-0273048P.
PR 02-MAR-2001; 2001US-0273300P.
PR 16-MAR-2001; 2001US-0276401P.
PR 20-MAR-2001; 2001US-0277324P.
PR 20-MAR-2001; 2001US-0278660P.
PR 30-MAR-2001; 2001US-0280039P.
PR 30-MAR-2001; 2001US-0280234P.
PR 02-APR-2001; 2001US-0280818P.
PR 12-APR-2001; 2001US-0283443P.
PR 23-APR-2001; 2001US-0285754P.
PR 24-APR-2001; 2001US-0286098P.
PR 03-MAY-2001; 2001US-0288353P.
PR 17-MAY-2001; 2001US-0291703P.
PR 31-MAY-2001; 2001US-0294834P.
PR 20-JUN-2001; 2001US-0296959P.
PR 21-JUN-2001; 2001US-0299845P.
PR 05-JUL-2001; 2001US-030242P.
PR 13-AUG-2001; 2001US-0311981P.
PR 16-AUG-2001; 2001US-0312858P.
PR 17-AUG-2001; 2001US-0313280P.
PR 29-AUG-2001; 2001US-0315614P.
PR 17-SEP-2001; 2001US-0322818P.
PR 25-FEB-2002; 2002US-00322818.
XX
PA (CURA-) CURAGEN CORP.
XX
XX Alsobrook JP, Anderson DW, Ballinger RA, Boldog FL, Burgess CE;
PI Casman SJ, Ellerman KE, Gangolli EA, Gerlach VL, Gilbert JA;
PI Gorman L, Guo X, Gusev VI, Kekuda R, Li L, Liu X, Malyankar UM;
PI Miller CE, Millet I, Padigaru M, Patturajan M, Pena CEA, Peyman JA;
PI Rastelli L, Shenoy SG, Shimkets RA, Smithson G, Spytek KA, Stone DJ;
PI Taupier RJ, Tchernev VT, Vernet CAM, Zerhusen BD;
XX
XX WPI; 2002-698672/75.
DR P-PSDB; ADH48776.
XX
XX New NOVX polypeptides or polynucleotides, useful for preventing or
PT treating disorders or syndromes e.g., atherosclerosis, hypertension,
PT obesity or cancer.
XX
XX Claim 8; Page 156-157; 923pp; English.
PS
CC The present invention relates to novel human NOVX proteins, where X is
CC any number from 1 to 91 and their coding sequences. The proteins and
CC coding sequences are useful for preventing or treating disorders or
CC syndromes e.g. atherosclerosis, hypertension, obesity or cancer. NOV25 is
CC a MEGF7-like protein and its coding sequence maps to chromosome 11.
XX
XX Sequence 5587 BP; 1297 A; 1556 C; 1610 G; 1124 T; 0 U; 0 Other;
SQ
Query Match 10.7%; Score 18; DB 6; Length 5587;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 121 TTCCAATGCTGGTGTGAA 138
DB 1087 TTCCAATGCTGGTGTGAA 1104
RESULT 8
ADH73025
ID ADH73025 standard; DNA; 5715 BP.
XX
XX ADH73025;
AC
XX
XX 25-MAR-2004 (first entry)
DT
XX
XX Human MEGF7 gene sequence.
DE
XX
XX MEGF7; epidermal growth factor-like domain; low density lipoprotein;
KW LDL receptor-like protein; gene therapy; protein therapy;
KW MEGF7 expression; human; ds; gene.
XX

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```

XX Homo sapiens.
OS
XX Key
FH Location/Qualifiers
FT CDS
FT 1..5715
FT /*tag= a
FT /product= "Human MEGF7 protein"
FT /partial
FT /note= "No stop codon"
XX
XX GB2381790-A.
XX
XX 14-MAY-2003.
XX
XX 26-SEP-2002; 2002GB-00022372.
XX
XX 26-SEP-2001; 2001GB-00023124.
XX
XX 26-JUN-2002; 2002GB-00014703.
XX
XX (GLAX ) GLAXO GROUP LTD.
XX
XX Volpe F;
XX
XX WPI; 2003-432835/41.
DR P-PSDB; ADH73026.
XX
XX Novel isolated human MEGF7 polypeptide, a polypeptide having multiple
PT epidermal growth factor-like domains, useful in diagnostic assays for
PT detecting diseases associated with inappropriate MEGF7 activity or
PT levels.
XX
XX Claim 1; SEQ ID NO 4; 47pp; English.
PS
CC This invention relates to a novel human MEGF7 polypeptide (a polypeptide
CC having multiple epidermal growth factor-like domains, including an
CC unidentified low density lipoprotein (LDL) receptor-like protein). The
CC sequences of the invention may be useful for gene therapy or protein
CC therapy or for the modulation of MEGF7 expression and activity. The
CC invention may be useful for the development of methods to diagnose or
CC treat diseases associated with inappropriate MEGF7 activity or levels.
CC The polypeptides and polynucleotides are also useful for configuring
CC screening methods for detecting the effect of added compounds on the
CC production of mRNA and polypeptide in cells. The polynucleotides are also
CC useful as diagnostic reagents, through detecting mutations in the
CC associated gene. The polynucleotide sequence is useful for chromosome
CC localisation studies and tissue expression studies. The present sequence
CC is the gene which encodes the human MEGF7 protein of the invention.
XX
XX Sequence 5715 BP; 1316 A; 1588 C; 1665 G; 1146 T; 0 U; 0 Other;
SQ
Query Match 10.7%; Score 18; DB 10; Length 5715;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 121 TTCCAATGCTGGTGTGAA 138
DB 1246 TTCCAATGCTGGTGTGAA 1263
RESULT 9
ADN04593
ID ADN04593 standard; cDNA; 6846 BP.
XX
XX ADN04593;
AC
XX
XX 01-JUL-2004 (first entry)
DT
XX
XX Antipsoriatic cDNA sequence #504.
DE
XX
XX ds; gene; antipsoriatic; gene therapy; psoriasis; diagnosis.
KW
XX
XX Homo sapiens.
OS
XX

```

```
PN WO2004028479-A2.
XX
PD 08-APR-2004.
XX
XX 25-SEP-2003; 2003WO-US030907.
XX
XX 25-SEP-2002; 2002US-0414006P.
XX
XX (GETH ) GENENTECH INC.
XX
XX Bodary S, Clark H, Jackman J, Schoenfeld J, Williams PM, Wood WI;
PI Wu TD;
XX
XX WPI; 2004-305105/28.
DR
DR P-FSDB; ADN04594.
XX
XX New PRO nucleic acid or polypeptide, useful for preparing a
PT pharmaceutical composition for diagnosing or treating psoriasis in a
PT mammal.
XX
XX Claim 1; SEQ ID NO 987; 3069pp; English.
XX
XX The invention relates to novel polynucleotide and polypeptides for
CC treating psoriasis or a sequence having at least 80% identity to the
CC above sequences. The nucleic acid is useful for preparing a composition
CC for diagnosing or treating psoriasis in a mammal. This sequence
CC corresponds to one of the polynucleotides of the invention.
XX
XX
XX Sequence 6846 BP; 1640 A; 1818 C; 1862 G; 1526 T; 0 U; 0 Other;
SQ
Query Match 10.7%; Score 18; DB 12; Length 6846;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 121 TTCCAATGCTGGTGTGAA 138
Qy |||||||||||||||
Db 259 TTCCAATGCTGGTGTGAA 276
|||||||||||||||||

RESULT 10
ADQ20312
ID ADQ20312 standard; DNA; 6846 BP.
XX
AC ADQ20312;
XX
XX 26-AUG-2004 (first entry)
XX
XX Human soft tissue sarcoma-upregulated DNA - SEQ ID 3132.
XX
XX soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human;
XX ds.
XX
XX Homo sapiens;
XX
XX WO2004048938-A2.
XX
XX 10-JUN-2004.
XX
XX 26-NOV-2003; 2003WO-US038193.
XX
XX 26-NOV-2002; 2002US-0429739P.
XX
XX (PROT-) PROTEIN DESIGN LABS INC.
XX
XX Aziz N, Ginsburg WM, Zlotnik A;
XX
XX WPI; 2004-441208/41.
XX
XX Early detection of soft tissue sarcoma comprises determining expression
PT of a gene in a first soft tissue sample and a normal soft tissue sample
PT and comparing the gene expression, also useful in treating soft tissue
PT sarcoma.
XX
```

```
PS Example 2; SEQ ID NO 3132; 210pp; English.
XX
XX The invention relates to a novel method for detecting soft tissue sarcoma
CC which comprises obtaining a first soft tissue sample from an individual
CC and a normal soft tissue sample from the same or different individual,
CC determining the expression of a gene in both samples and comparing the
CC expression of the gene in both soft tissue samples, where a higher level
CC of protein expression in the first soft tissue sample indicates the
CC presence of soft tissue sarcoma. The method of the invention has
CC cytostatic applications and may be useful for detecting soft tissue
CC sarcoma, possibly via gene therapy or vaccine production. The nucleic
CC acid sequences may be useful in diagnostic and screening applications.
CC The current sequence is that of a human soft tissue sarcoma-upregulated
CC DNA of the invention. The current sequence is not shown within the
CC specification per se but was submitted in CD format by the inventor.
XX
XX Sequence 6846 BP; 1640 A; 1818 C; 1862 G; 1526 T; 0 U; 0 Other;
SQ
Query Match 10.7%; Score 18; DB 12; Length 6846;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 121 TTCCAATGCTGGTGTGAA 138
Qy |||||||||||||||
Db 259 TTCCAATGCTGGTGTGAA 276
|||||||||||||||||

RESULT 11
AAS45066
ID AAS45066 standard; cDNA; 7037 BP.
XX
AC AAS45066;
XX
XX 18-DEC-2001 (first entry)
XX
XX cDNA encoding novel human secretory protein, Seq ID No 147.
XX
XX Human; secreted protein; arthritis; Crohn's disease; sepsis; shock;
XX ischaemia-reperfusion injury; haematopoiesis; cancer; neuropathy;
XX transgenic animal; Alzheimer's disease; Parkinson's disease; burn;
XX amyotrophic lateral sclerosis; platelet disorder; thrombocytopenia;
XX ulcer; osteoporosis; bone degenerative disorder; periodontal disease;
XX gut protection; lung; liver fibrosis; immune deficiency; infection;
XX severe combined immunodeficiency; SCID; autoimmune disorder; allergy;
XX multiple sclerosis; rheumatoid arthritis; diabetes mellitus; asthma;
XX fertility; analgesic; pain; antigen; ss.
XX
XX Homo sapiens.
XX
XX WO200166689-A2.
XX
XX 13-SEP-2001.
XX
XX 05-MAR-2001; 2001WO-US004942.
XX
XX 07-MAR-2000; 2000US-00519705.
XX
XX 19-MAY-2000; 2000US-00574454.
XX
XX 17-JUN-2000; 2000US-00596193.
XX
XX 14-JUL-2000; 2000US-00616847.
XX
XX 19-SEP-2000; 2000US-00665363.
XX
XX 20-OCT-2000; 2000US-00693267.
XX
XX (HYSE-) HYSEQ INC.
XX
XX Tang YT, Liu C, Asundi V, Xu C, Wehrman T, Ren F, Ma Y, Zhou P;
XX Zhao QA, Yang Y, Drmanac RT, Zhang J, Chen R, Xue AJ, Wang J;
XX WPI; 2001-589934/66.
XX
XX P-FSDB; AAU28166.
XX
XX Novel polypeptides and nucleic acids obtained from cDNA libraries
PT prepared from various human tissues, for diagnosis and treatment of
PT cancer, neurological, inflammatory, and autoimmune disorders.
PT
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Claim 1; SEQ ID NO 147; 107pp; English.

The invention relates to novel isolated human secreted polypeptides (I) and polynucleotides (II). (I) and (II) are useful for treating inflammatory conditions such as arthritis, nephritis, Crohn's disease, ischaemia-reperfusion injury, shock, sepsis, immune responses, and is involved in increasing haematopoiesis, stem cell survival, bone growth and remodeling. (I), (II) and modulators of (II) are useful for prophylaxis or treatment of one or more cancers. (II) is also useful for creating transgenic animals useful for studying the in vivo activities of the polypeptide as well as for studying modulators of the polypeptides. (I) induces the proliferation of neural cells and regeneration of nerve and brain tissue and is useful for the treatment of central and peripheral nervous system diseases and neuropathies, such as Alzheimer's, Parkinson's disease, Huntington's disease, and amyotrophic lateral sclerosis. In addition, (I) is involved in chemotactic or chemokinetic activity, regulation of haematopoiesis and is useful for treating myeloid or lymphoid cell disorders, platelet disorders such as thrombocytopenia for regeneration of bone, cartilage, tendon, ligament and/or nerve tissue growth, and in tissue repair, healing of burns, incisions, ulcers, for treating osteoporosis, osteoarthritis, bone degenerative disorders, or periodontal disease. Furthermore, (I) is also useful for gut protection or regeneration and treatment of lung or liver fibrosis, reperfusion injury in various tissues, various immune deficiencies and disorders including severe combined immunodeficiency (SCID), bacterial or fungal infections, autoimmune disorders e.g. multiple sclerosis, rheumatoid arthritis, diabetes mellitus, myasthenia gravis, allergic reactions and conditions, such as asthma or other respiratory problems. In addition, (I) affects biorhythms or circadian cycles of rhythms, fertility, metabolism, catabolism, anabolism, storage or elimination of dietary fat, lipid, protein, carbohydrate, vitamins, minerals, provides analgesic effects or other pain reducing effects, immunoglobulin like activity and can act as an antigen in a vaccine composition to raise an immune response. AAS44920-AAS45295 represent novel human secreted protein coding sequences of the invention

SEQ Sequence 7037 BP; 1681 A; 1867 C; 1925 G; 1564 T; 0 U; 0 Other;

Query Match 10.7%; Score 18; DB 5; Length 7037;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 121 TTCCAATGCTGGTGTGA 138
|||||
DB 450 TTCCAATGCTGGTGTGA 467

RESULT 12
ABX63780
ID ABX63780 standard; cDNA; 7132 BP.
XX
AC ABX63780;
XX
DT 26-FEB-2003 (first entry)
XX
DE Human cDNA #780 differentially expressed in activated vascular tissue.
XX
KW Human; gene; ss; vascular tissue; cytostatic; atherosclerosis; cardiant;
KW hypotensive; antidiabetic; gynaecological; vasotropic; cerebroprotective;
KW gene therapy; vascular disease; cancer; coronary; artery disease;
KW hypertension; diabetes; pre-eclampsia; restenosis;
KW ischaemia-reperfusion injury; stroke.
XX
OS Homo sapiens.
XX
PN US2002137081-A1.
XX
PD 26-SEP-2002.
XX
PF 08-JAN-2002; 2002US-00044090.
XX
PR 28-JUL-2000; 2000US-0222469P.

08-JAN-2001; 2001US-0260483P.
(BAND/) BANDMAN O.
Bandman O;
WPI; 2003-110597/10.
Combination for diagnosing, staging, treating, or monitoring the progression of treatment of a vascular disease, e.g. atherosclerosis, comprises several cDNAs that are differentially expressed in activated vascular tissue.
Claim 1; Page; 18pp; English.
This invention relates to a combination comprising several cDNAs that are differentially expressed in activated vascular tissue. The invention also discloses a high throughput method for detecting differentially expressed cDNAs in a sample. The cDNAs of the invention may have antiarteriosclerotic; cytostatic; cardiant; hypotensive; antidiabetic; gynaecological; vasotropic and cerebroprotective activities and may be used in gene therapy. The cDNAs of the invention may be used in a high-throughput methods for detecting differential expression of one or more cDNAs in a sample, or screening several molecules or compounds to identify a molecule or compound that specifically binds a cDNA of the invention. A protein encoded by the cDNA may be used to screen several molecules or compounds to identify a ligand that specifically binds to the protein, or to produce or purify an antibody to the protein that can be used to detect a protein in a sample or purify a natural or recombinant protein from a sample. The nucleotides may be useful for diagnosing, staging, treating, or monitoring the progression of treatment of a vascular disease, e.g. atherosclerosis, cancer, coronary artery disease, hypertension, diabetes, pre-eclampsia, ischaemia-reperfusion injury, restenosis, or stroke. The cDNAs can also be used for large-scale genetic or gene expression analysis of several new nucleic acid molecules. Antibodies to the proteins encoded by the cDNAs are useful for diagnosing pre-pathologic disorders, and chronic or acute diseases associated with abnormalities in the expression, amount or distribution of the protein. The present sequence represents a cDNA of the invention that is differentially expressed in activated vascular tissue. Note: The sequence data for this patent did not form part of the specification, but was obtained in electronic format directly from USPTO at http.seqdata.uspto.gov/sequence.html?DocID=20020137081

SEQ Sequence 7132 BP; 1702 A; 1879 C; 1942 G; 1609 T; 0 U; 0 Other;

Query Match 10.7%; Score 18; DB 8; Length 7132;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 121 TTCCAATGCTGGTGTGA 138
|||||
DB 259 TTCCAATGCTGGTGTGA 276

RESULT 13
ADD93418
ID ADD93418 standard; cDNA; 7973 BP.
XX
AC ADD93418;
XX
DT 29-JAN-2004 (first entry)
XX
DE Human lipid-associated molecule LIPAM-6 polynucleotide.
XX
KW Human; lipid-associated molecule; LIPAM-6; neuroprotective; relaxant;
KW antithyroid; antidiabetic; cytostatic; dermatological; immunosuppressive;
KW antiinflammatory; thyromimetic; antiallergic; cerebroprotective;
KW gastrointestinal; hepatotropic; nephrotropic; anticonvulsant;
KW antiparkinsonian; antibacterial; antiparasitic; fungicide; protozoacide;
KW virucide; uropathic; antirheumatic; cardiant; cardiovascular; anti-HIV;
KW nootropic; gene; ss.

```

OS XX Homo sapiens
XX FH Key
XX FT CDS
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XX FT /*tag= b
XX FT sig_peptide
XX FT 138..197
XX FT /*tag= a
XX FT /product= "Human LIPAM-6"
XX FT mat_peptide
XX FT 198..5855
XX FT /*tag= c
XX FT
XX FT WO2003083081-A2.
XX FT
XX FT 09-OCT-2003.
XX FT
XX FT 27-MAR-2003; 2003WO-US009755.
XX FT
XX FT 29-MAR-2002; 2002US-0368722P.
XX FT 03-MAY-2002; 2002US-0377576P.
XX FT 05-JUL-2002; 2002US-0393934P.
XX FT 27-SEP-2002; 2002US-041269P.
XX FT
XX FT (INCY-) INCYTE CORP.
XX FT
XX FT Emerling BM, Marquis JP, Chawla NK, Lee SY, Duggan BM, Warren BA;
XX FT Baughn MR, Lee EA, Griffin JA, Kahle AE, Elliott VS, Chang H;
XX FT Lee S, Ramkumar J, Bulloch SA, Hafalia AJA, Khare R, Jiang X;
XX FT Jackson AA;
XX FT
XX FT WPI; 2003-788347/74.
XX FT P-PSDB; ADD93399.
XX FT
XX FT New LIPAM polypeptides, useful for diagnosing, preventing, and treating
XX FT disorders associated with abnormal expression or activity of LIPAM, e.g.
XX FT neuromuscular, immunological, cardiovascular disorders, cancer and/or
XX FT infections.
XX FT
XX FT Claim 80; Page 222-224; 238pp; English.
XX FT
XX FT The present sequence is the nucleotide sequence of human lipid-associated
XX FT molecule LIPAM-6 (incyte polynucleotide 7510885CBI), which encodes a
XX FT protein that shows sequence homology to chicken alpha-2-macroglobulin
XX FT receptor. This is one of 19 LIPAM polynucleotides of the invention. The
XX FT invention relates to novel LIPAMs and the nucleic acids encoding them,
XX FT and to the use of nucleic acids and proteins in the diagnosis, treatment
XX FT and prevention of disorders associated with abnormal expression or
XX FT activity of LIPAM such as neurodegenerative disorders (e.g. Parkinson's
XX FT disease, Alzheimer's disease), muscular disorders (e.g. myotonic
XX FT dystrophy, catantonia), endocrine disorders (e.g. diabetes, Grave's
XX FT disease), cancers (e.g. leukaemia, cervical or breast cancers),
XX FT immunological disorders (e.g. scleroderma, systemic lupus erythematosus,
XX FT allergies), gastrointestinal disorders (e.g. Crohn's disease), renal
XX FT disorders (e.g. Goodpasture's syndrome), infections (e.g. viral,
XX FT bacterial, fungal, parasitic, protozoal, helminthic), cardiovascular
XX FT disorders (e.g. atherosclerosis), or hepatic diseases (e.g. cirrhosis).
XX FT The invention also relates to the assessment of the effects of exogenous
XX FT compounds on the expression of nucleic acids and LIPAMs. The invention
XX FT provides expression vectors, host cells, antibodies, agonists and
XX FT antagonists, transgenic organisms, and arrays and microarrays of the
XX FT polynucleotides.
XX FT
XX FT Sequence 7973 BP; 1849 A; 2140 C; 2244 G; 1740 T; 0 U; 0 Other;
XX FT
XX FT Query Match 10.7%; Score 18; DB 10; Length 7973;
XX FT Best Local Similarity 100.0%; Pred. No. 12;
XX FT Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX FT
XX FT Qy 121 TTCCAATGCTGGTGTGA 138
XX FT
XX FT Db 1386 TTCCAATGCTGGTGTGA 1403
XX FT
XX FT RESULT 14

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AAD47370
ID AAD47370 standard; DNA; 7974 BP.
XX AC
XX AC AAD47370;
XX DT
XX DT 24-FEB-2003 (first entry)
XX DE
XX DE Human LP288 DNA.
XX KW
XX KW Human; LP protein; cell proliferative disorder; actinic keratinosis;
XX KW arteriosclerosis; psoriasis; leukaemia; lymphoma; autoimmune disorder;
XX KW melanoma; cancer; inflammatory disorder; Addison's disease; allergy;
XX KW acquired immune deficiency syndrome; AIDS; ankylosing spondylitis;
XX KW amyloidosis; anaemia; asthma; Crohn's disease; Goodpasture's syndrome;
XX KW gout; Grave's disease; Hashimoto's thyroiditis; cardiovascular disorder;
XX KW congestive heart failure; ischaemic heart disease; myocardial infarction;
XX KW angina pectoris; atherosclerosis; hypertension; neurological disorder;
XX KW stroke; Parkinson's disease; Alzheimer's disease; developmental disorder;
XX KW Down's syndrome; cerebral palsy; gene therapy; nephrotropic; nontropic;
XX KW gene; ds.
XX OS
XX OS Homo sapiens.
XX FH
XX FH Key
XX FH CDS
XX FH Location/Qualifiers
XX FH 142..5859
XX FH /*tag= a
XX FH /product= "Human LP288 protein"
XX FH sig_peptide
XX FH 142..201
XX FH /*tag= b
XX FH mat_peptide
XX FH 202..2856
XX FH /*tag= c
XX FH /product= "Human mature LP288 protein"
XX FT
XX FT WO200274906-A2.
XX FT
XX FT 26-SEP-2002.
XX FT
XX FT 01-MAR-2002; 2002WO-US005093.
XX FT
XX FT 16-MAR-2001; 2001US-0276596P.
XX FT 13-APR-2001; 2001US-0283654P.
XX FT 20-APR-2001; 2001US-0285238P.
XX FT 03-MAY-2001; 2001US-0288548P.
XX FT 11-MAY-2001; 2001US-0290351P.
XX FT
XX FT (ELIL ) LILLY & CO ELI.
XX FT
XX FT Amegadzie BY, Basinski MB, Chen D, Huang C, Kelleher GP;
XX FT Perkins DR, Rosteck PRJ, Rowlinson SW, Sankharam PR, Seno ET;
XX FT Su EW, Zhi Y;
XX FT
XX FT WPI; 2003-018798/01.
XX FT P-PSDB; AAE29923.
XX FT
XX FT New mammalian LP polynucleotides and proteins, useful in gene therapy,
XX FT e.g. for treating or preventing cancers, autoimmune (e.g. AIDS),
XX FT cardiovascular (e.g. myocardial infarction) or neurological (e.g. stroke)
XX FT disorders.
XX FT
XX FT Claim 3; Page 235-243; 290pp; English.
XX FT
XX FT The present invention relates to LP (LP318a, LP318b, LP288, LP289, LP343,
XX FT LP319a, LP319b, LP321, LP317, LP283, LP344, LP345 or LP346) proteins and
XX FT polynucleotides encoding such proteins. Sequences of the invention are
XX FT used to diagnose, treat or prevent cell proliferative disorders (e.g.
XX FT actinic keratinosis, arteriosclerosis, psoriasis, leukaemia, lymphoma,
XX FT melanoma, brain cancer or breast cancer), autoimmune or inflammatory
XX FT disorders (e.g. AIDS (acquired immune deficiency syndrome), Addison's
XX FT disease, allergies, ankylosing spondylitis, amyloidosis, anaemia, asthma,
XX FT Crohn's disease, Goodpasture's syndrome, gout, Hashimoto's thyroiditis or
XX FT Grave's disease), cardiovascular disorders (e.g. congestive heart
XX FT failure, ischaemic heart disease, angina pectoris, myocardial infarction,
XX FT atherosclerosis or hypertension), neurological disorders (e.g. stroke,

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CC Parkinson's disease or Alzheimer's disease) or developmental disorders
 CC (e.g. Down's syndrome or cerebral palsy). They are also used in gene
 CC therapy. The present sequence is human LP288 DNA
 XX
 SQ Sequence 7974 BP; 1848 A; 2143 C; 2243 G; 1740 T; 0 U; 0 Other;
 Query Match 10.7%; Score 18; DB 8; Length 7974;
 Best Local Similarity 100.0%; Pred. No. 12;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 121 TTCCAATGCTGCTGAA 138
 |||||
 DB 1387 TTCCAATGCTGCTGAA 1404
 |||||
 RESULT 15
 AAF94902/c
 ID AAF94902 standard; cDNA; 396 BP.
 XX
 AC AAF94902;
 XX
 DT 23-MAY-2001 (first entry)
 XX
 DE Human ovarian cancer associated coding sequence SEQ ID NO: 93.
 XX
 KW Human, ovarian cancer; vaccine; gene therapy; carcinoma; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200118046-A2.
 XX
 PD 15-MAR-2001.
 XX
 PP 08-SEP-2000; 2000WO-US024827.
 XX
 PR 10-SEP-1999; 99US-00394374.
 PR 01-MAY-2000; 2000US-00561778.
 PR 15-AUG-2000; 2000US-00640173.
 PR 07-SEP-2000; 2000US-00656668.
 XX
 PA (CORI-) CORIXA CORP.
 XX
 PI Xu J, Stolk JA;
 XX
 XX WPI; 2001-211395/21.
 XX
 PT Isolated polypeptides associated with ovarian carcinomas, and the nucleic
 PT acids that encode them, useful for the prevention diagnosis and treatment
 PT of ovarian cancers.
 XX
 PS Claim 5; Page 146; 189pp; English.
 XX
 CC The present invention provides a number of coding sequences and proteins,
 CC the over-expression of which is associated with ovarian carcinoma/cancer.
 CC These can be used in the diagnosis, treatment and prevention of ovarian
 CC cancer, optionally by gene therapy or in the form of a vaccine. The
 CC present sequence is an example of one of these sequences
 XX
 SQ Sequence 396 BP; 110 A; 86 C; 79 G; 112 T; 0 U; 9 Other;
 Query Match 10.1%; Score 17; DB 4; Length 396;
 Best Local Similarity 100.0%; Pred. No. 46;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 140 TTCTGAGGATGAGAAC 156
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 DB 199 TTCTGAGGATGAGAAC 183
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 Job time : 317.243 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 26, 2005, 18:47:02 ; Search time 1855.79 Seconds
(without alignments)
4386.526 Million cell updates/sec

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Perfect score: 168
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Scoring table: OLIGO NUC
Gapop_60.0 , Gapext 60.0

Searched: 4708233 seqs, 24227607955 residues

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Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0
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Post-processing: Listing first 45 summaries

Database :

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5: gb.ov.*
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8: gb.pl.*
9: gb.pr.*
10: gb.ro.*
11: gb.sts.*
12: gb.sy.*
13: gb.un.*
14: gb.vi.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	22	13.1	126889	10	AC141867	AC141867 Mus muscu
c 2	22	13.1	213178	10	AC148021	AC148021 Mus muscu
3	22	13.1	234325	2	AC133845	AC133845 Rattus no
4	22	13.1	235305	2	AC094603	AC094603 Rattus no
c 5	22	13.1	246625	2	AC094293	AC094293 Rattus no
c 6	21	12.5	205947	2	AC117346	AC117346 Rattus no
c 7	21	12.5	291547	2	AC114722	AC114722 Rattus no
c 8	20	11.9	45550	2	AC015339	AC015339 Drosophil
c 9	20	11.9	169680	3	AC008337	AC008337 Drosophil
c 10	20	11.9	183048	3	AC012376	AC012376 Drosophil
c 11	20	11.9	207871	2	AC119359	AC119359 Rattus no
c 12	20	11.9	297970	3	AE003511	AE003511 Drosophil
c 13	19	11.3	184568	9	AC009558	AC009558 Homo sapi
c 14	19	11.3	186716	2	AC025843	AC025843 Homo sapi
c 15	19	11.3	190414	10	AC150648	AC150648 Mus muscu
c 16	19	11.3	199810	10	AC125050	AC125050 Mus muscu
c 17	19	11.3	301448	2	AC097707	AC097707 Rattus no
c 18	18	10.7	192	3	AY351304	AY351304 Centruroi
19	18	10.7	192	3	AY351305	AY351305 Centruroi

20	18	10.7	192	3	AY351306	AY351306 Centruroi
21	18	10.7	192	3	AY351307	AY351307 Centruroi
22	18	10.7	319	3	AF338459	AF338459 Centruroi
23	18	10.7	320	3	AF338461	AF338461 Centruroi
24	18	10.7	323	3	AF338454	AF338454 Centruroi
25	18	10.7	323	3	AF338455	AF338455 Centruroi
26	18	10.7	323	3	AF338456	AF338456 Centruroi
27	18	10.7	323	3	AF338457	AF338457 Centruroi
28	18	10.7	323	3	AF338458	AF338458 Centruroi
29	18	10.7	323	3	AF338462	AF338462 Centruroi
30	18	10.7	323	3	AF338463	AF338463 Centruroi
31	18	10.7	323	3	AF338464	AF338464 Centruroi
32	18	10.7	819	5	AY553186	AY553186 Xenopus 1
33	18	10.7	899	5	AB077363	AB077363 Xenopus 1
34	18	10.7	940	8	AY051046	AY051046 Arabidops
35	18	10.7	1206	5	BC056846	BC056846 Xenopus 1
36	18	10.7	1209	5	BC045084	BC045084 Xenopus 1
37	18	10.7	1867	8	AK175540	AK175540 Arabidops
38	18	10.7	1989	8	AF360290	AF360290 Arabidops
c 39	18	10.7	3045	8	AB089697	AB089697 Fagopyrum
c 40	18	10.7	3061	8	AB089696	AB089696 Fagopyrum
41	18	10.7	5185	6	CQ717587	CQ717587 Sequence
42	18	10.7	5587	6	AX921066	AX921066 Sequence
43	18	10.7	6846	9	AB011540	AB011540 Homo sapi
c 44	18	10.7	41601	9	AC004017	AC004017 Homo sapi
c 45	18	10.7	100627	9	AC007359	AC007359 Homo sapi

ALIGNMENTS

RESULT 1	AC141867	126889 bp	DNA	linear	ROD 27-NOV-2003
LOCUS	AC141867				
DEFINITION	Mus musculus BAC clone RP24-424E17	from chromosome 19,	complete		
ACCESSION	AC141867				
VERSION	AC141867.4	GI:33667259			
KEYWORDS	HTG.				
SOURCE	Mus musculus (house mouse)				
ORGANISM	Mus musculus				
REFERENCE	1 (bases 1 to 126889)				
AUTHORS	Shah, N.				
TITLE	The sequence of Mus musculus BAC clone RP24-424E17				
JOURNAL	Unpublished (2001)				
REFERENCE	2 (bases 1 to 126889)				
AUTHORS	Wilson, R.				
TITLE	Sequencing of Mus musculus				
JOURNAL	Unpublished (2001)				
REFERENCE	3 (bases 1 to 126889)				
AUTHORS	McPherson, J.D. and Waterston, R.H.				
TITLE	Direct Submission				
JOURNAL	Submitted (19-MAR-2003) Genome Sequencing Center, 4444 Forest Park				
REFERENCE	4 (bases 1 to 126889)				
AUTHORS	Wilson, R.K.				
TITLE	Direct Submission				
JOURNAL	Submitted (03-JUL-2003) Genome Sequencing Center, 4444 Forest Park				
REFERENCE	5 (bases 1 to 126889)				
AUTHORS	Wilson, R.K.				
TITLE	Direct Submission				
JOURNAL	Submitted (15-AUG-2003) Genome Sequencing Center, 4444 Forest Park				
REFERENCE	6 (bases 1 to 126889)				
AUTHORS	Wilson, R.				
TITLE	Direct Submission				
JOURNAL	Submitted (27-NOV-2003) Department of Genetics, Washington				
COMMENT	University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA				
	On Aug 15, 2003 this sequence version replaced gi:32441365.				
	----- Genome Center				

Center: Washington University Genome Sequencing Center

Center code: WUGSC

Web site: <http://genome.wustl.edu>

Contact: submissions@watson.wustl.edu

----- Summary Statistics

Center project name: M_BB0424E17

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:

Mapping information for this clone was provided by Dr. Wes Warren, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see <http://genome.wustl.edu>

SOURCE INFORMATION:

The RPCI-24 BAC Library has been constructed by Pieter de Jong and coworkers (<http://www.chori.org>) from male C57BL/6J mouse spleen and/or brain genomic DNA. The clone and detailed information can be obtained from Pieter de Jong and coworkers at <http://www.chori.org>

NEIGHBORING SEQUENCE INFORMATION:

This sequence is the entire insert of the clone.

FEATURES

source	Location/Qualifiers
1..126889	/organism="Mus musculus"
	/mol_type="genomic DNA"
	/db_xref="taxon:10090"
	/chromosome="19"
	/map="19"
	/clone="RP24-424E17"
	/clone_lib="RPCI-24"
61..144	/rpt_family="B4"
475..587	/rpt_family="AcHobo"
1530..1769	/rpt_family="MER2_type"
1851..2309	/rpt_family="MER2_type"
2328..2592	/rpt_family="B4"
2667..2750	/rpt_family="MER2_type"
2787..2839	/rpt_family="ERV1"
3019..3196	/rpt_family="L1"
4329..4553	/rpt_family="B2"
4630..4748	/rpt_family="B4"
4644..4804	/rpt_family="MaLR"
5359..5438	/rpt_family="MER1_type"
5528..5696	/rpt_family="B2"
6674..6957	/rpt_family="L1"
7441..7592	/rpt_family="B4"

repeat_region	7733..7797	/rpt_family="Alu"
repeat_region	7852..7988	/rpt_family="ERV1"
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repeat_region	10430..10636	/rpt_family="L1"
repeat_region	11101..11238	/rpt_family="B4"
repeat_region	11436..11648	/rpt_family="Alu"
repeat_region	12403..12535	/rpt_family="B2"
repeat_region	13942..14026	/rpt_family="MIR"
repeat_region	14863..14986	/rpt_family="L2"
repeat_region	15804..15851	/rpt_family="MaLR"
repeat_region	15907..16111	/rpt_family="L2"
repeat_region	16318..16364	/rpt_family="L2"
repeat_region	16376..16475	/rpt_family="MaLR"
repeat_region	16658..16841	/rpt_family="B2"
repeat_region	18345..18444	/rpt_family="L2"
repeat_region	19872..19990	/rpt_family="MIR"
repeat_region	21585..21911	/rpt_family="MaLR"
repeat_region	23518..23593	/rpt_family="ID"
repeat_region	24449..24567	/rpt_family="MIR"
repeat_region	26603..26709	/rpt_family="Alu"
repeat_region	27720..27775	/rpt_family="Mariner"
repeat_region	28356..28401	/rpt_family="Mariner"
repeat_region	31094..31241	/rpt_family="Alu"
repeat_region	31323..31599	/rpt_family="B4"
repeat_region	32264..32339	/rpt_family="ID"
repeat_region	32394..32559	/rpt_family="B2"
repeat_region	32585..32731	/rpt_family="Alu"
repeat_region	32867..33064	/rpt_family="MER1_type"
unsure	35162..35332	/note="Unresolved simple sequence repeat."
repeat_region	35419..35658	/rpt_family="L1"
repeat_region	37357..37569	/rpt_family="B2"
repeat_region	38521..38763	/rpt_family="MER2_type"
repeat_region	39563..39768	/rpt_family="B2"
repeat_region	40172..40385	/rpt_family="L1"
repeat_region	40410..40683	/rpt_family="L1"
repeat_region	43617..43835	/rpt_family="B4"

MAPPING INFORMATION:
Mapping information for this clone was provided by Dr. Wes Warren,

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repeat_region 24495..24580 /rpt_family="L2"
repeat_region 27452..27603 /rpt_family="L2"
repeat_region 27734..27880 /rpt_family="L1"
repeat_region 28012..28200 /rpt_family="L1"
repeat_region 29405..29566 /rpt_family="MIR"
repeat_region 30402..30644 /rpt_family="L1"
repeat_region 30772..30865 /rpt_family="L1"
repeat_region 30868..31157 /rpt_family="L1"
repeat_region 31226..31343 /rpt_family="MaLR"
repeat_region 31571..31856 /rpt_family="L1"
repeat_region 31883..32147 /rpt_family="B4"
repeat_region 32323..32744 /rpt_family="L1"
repeat_region 32776..33125 /rpt_family="MaLR"
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repeat_region 33418..33823 /rpt_family="L1"
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repeat_region 35612..35711 /rpt_family="MER1_type"
repeat_region 36132..36218 /rpt_family="L1"
repeat_region 36252..36298 /rpt_family="MaLR"
repeat_region 36299..36429 /rpt_family="Alu"
repeat_region 39089..39164 /rpt_family="Alu"
repeat_region 39565..39643 /rpt_family="MaLR"
repeat_region 40187..40547 /rpt_family="MaLR"
repeat_region 42281..42318 /rpt_family="Alu"
repeat_region 43201..43361 /rpt_family="Alu"
repeat_region 45578..45698 /rpt_family="Alu"
repeat_region 46623..46752 /rpt_family="MER1_type"
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repeat_region 50808..50992 /rpt_family="L1"
repeat_region 51082..51239 /rpt_family="L1"
repeat_region 51240..51434 /rpt_family="B2"
repeat_region 51435..51537 /rpt_family="L1"
repeat_region 51550..51683 /rpt_family="Alu"
repeat_region 52489..52851 /rpt_family="MaLR"
repeat_region 54229..54373 /rpt_family="Alu"
repeat_region 57514..57861 /rpt_family="MaLR"

repeat_region 58332..58389 /rpt_family="B2"
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repeat_region 61959..62140 /rpt_family="L1"
repeat_region 62379..62642

Query Match 13.1%; Score 22; DB 10; Length 213178;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 72 CATTAAGATCTGTCAGAAACAC 93
Db 101861 CATTAAGATCTGTCAGAAACAC 101840

RESULT 3
AC133845
LOCUS
DEFINITION
AC133845
AC133845.3 GI:30522110
VERSION
HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_ENRICHED.
KEYWORDS
Rattus norvegicus (Norway rat)
SOURCE
Rattus norvegicus
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
REFERENCE
1 (bases 1 to 234325)
AUTHORS
Muzny, D., Marie, Metzker, M., Lee, Abramson, S., Adams, C., Alder, J.,
Allen, C., Allen, H., Alsbrooks, S., Amin, A., Anguiano, D.,
Anyalebechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H.,
Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F.,
Biswal, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M.,
Bryant, N., Buhay, C., Burch, P., Burrell, K., Calderon, E.,
Cardenas, V., Carter, K., Cavazos, I., Caesar, H., Center, A.,
Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Y., Chen, Z., Chu, J.,
Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L.,
Davila, M., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D.,
Delgado, O., Denson, S., Deramo, C., Ding, Y., Dinh, H., Divya, K.,
Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K.,
Egan, A., Escoto, M., Eugene, C., Evans, C., Falls, T., Fan, G.,
Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P.,
Fraser, C., Gabisi, A., Ganta, R., Garcia, A., Garner, T., Garza, M.,
Georgiev, E., Geer, K., Gill, R., Grady, M., Guerra, W., Guevara, W.,
Gunaratne, P., Haaland, W., Hamill, C., Hamilton, C., Hamilton, K.,
Harvey, Y., Havlak, P., Hawes, A., Henderson, N., Hernandez, J.,
Hernandez, R., Hines, S., Hladun, S., Hodgson, A., Hughes, M.,
Hollins, B., Howells, S., Hulyk, S., Hume, J., Jolebird, D., Jackson, A.,
Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A.,
Karpach, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C.,
Kowis, C., Kraft, C., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J.,
Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J.,
Lorensu, L., Lousegh, H., Lozano, R., Lu, X., Ma, J.,
Maheshwari, M., Mahindratne, M., Mahmoud, M., Malloy, K., Mangum, A.,
Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, E.,
Mawhiney, S., McLeod, M., McNeill, T., Meenen, E.,
Milosavljevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S.,
Morgan, M., Morris, K., Morris, S., Munidasa, M., Murphy, M., Nair, L.,
Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S.,
Nwaokeme, O., Okwuonu, G., Olarnpunsagoon, A., Pal, S., Parks, K.,
Pasternak, S., Paul, H., Perez, A., Perez, L., Prannko, C.,
Plopper, F., Poindexter, A., Popovic, D., Primus, E., Pu, L.,
Puazo, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M., Reigh, R.,
Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F.,
Rives, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruiz, S.,
Sanders, W., Savery, G., Scherer, S., Scott, G., Shatsman, S., Shen, H.,
Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C., Smajs, D.,
Sneed, A., Sodergren, E., Song, X., Sorelle, R., Sosa, J.,
Steimle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C.,
Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Usmani, K.,
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Valas,R., Vera,V., Villasana,D., Waldron,L., Walker,B., Wang,J., Wang,Q., Wang,S., Warren,J., Warren,R., Wei,X., White,F., Williams,G., Willson,R., Wleczyk,R., Wooden,H., Worley,K., Wright,D., Wright,R., Wu,J., Yakub,S., Yen,J., Yoon,L., Yoon,V., Yu,F., Zhang,J., Zhou,J., Zhou,X., Zhao,S., Dunn,D., von Niederhausern,A., Weiss,R., Smith,D.R., Holt,R.A., Smith,H.O., Weinstock,G. and Gibbs,R.A.
Direct Submission

TITLE

JOURNAL

REFERENCE

AUTHORS

JOURNAL

REFERENCE

AUTHORS

JOURNAL

COMMENT

2 (bases 1 to 234325)

Rat Genome Sequencing Consortium.

Direct Submission

Submitted (19-SEP-2002) Human Genome Sequencing Center, Department

of Molecular and Human Genetics, Baylor College of Medicine, One

Baylor Plaza, Houston, TX 77030, USA

3 (bases 1 to 234325)

Rat Genome Sequencing Consortium.

Direct Submission

Submitted (10-MAY-2003) Human Genome Sequencing Center, Department

of Molecular and Human Genetics, Baylor College of Medicine, One

Baylor Plaza, Houston, TX 77030, USA

On May 10, 2003 this sequence version replaced gi:25013050.

The sequence in this assembly is a combination of BAC based reads

and whole genome shotgun sequencing reads assembled using Atlas

(<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described

in the feature table below represents a scaffold in the Atlas

assembly (a 'contig-scaffold'). Within each contig-scaffold,

individual sequence contigs are ordered and oriented, and separated

by sized gaps filled with Ns to the estimated size. The sequence

may extend beyond the ends of the clone and there may be sequence

contigs within a contig-scaffold that consist entirely of whole

genome shotgun sequence reads. Both end sequences and whole genome

shotgun sequence only contigs will be indicated in the feature

table.

----- Genome Center

Center: Baylor College of Medicine

Center code: BCM

Web site: <http://www.hgsc.bcm.tmc.edu/>

Contact: hgsc-help@bcm.tmc.edu

----- Project Information

Center project name: GSVF

Center clone name: CH230-41J2

----- Summary Statistics

Assembly program: Atlas 3.0;

Consensus quality: 224086 bases at least Q40

Consensus quality: 226523 bases at least Q30

Consensus quality: 227917 bases at least Q20

Estimated insert size: 237878; sum-of-contigs estimation

Quality coverage: 6x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length

(see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).

* NOTE: This is a 'working draft' sequence. It currently

consists of 2 contigs. The true order of the pieces

is not known and their order in this sequence record is

arbitrary. Gaps between the contigs are represented as

runs of N, but the exact sizes of the gaps are unknown.

* This record will be updated with the finished sequence

as soon as it is available and the accession number will

be preserved.

* 1 231823: contig of 231823 bp in length

* 231824 231923: gap of unknown length

* 231924 234325: contig of 2402 bp in length.

----- Location/Qualifiers

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/organism="Rattus norvegicus"

/mol_type="genomic DNA"

/db_xref="taxon:10116"

/clone="CH230-41J2"

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site:ECORI

end_sequence:BH342505"

complement(230261..231118)

/note="clone boundary

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end_sequence:BH342503"

ORIGIN

Query Match 13.1%; Score 22; DB 2; Length 234325;

Best Local Similarity 100.0%; Pred. No. 0.2;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 67 GACTGCATTAAAGATCTGTCTGAGA 88

Db 54847 GACTGCATTAAAGATCTGTCTGAGA 54868

RESULT 4

AC094603

LOCUS

DEFINITION

AC094603

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

AC094603 235305 bp DNA linear HTG 09-MAY-2003

Rattus norvegicus clone CH230-3J24, WORKING DRAFT SEQUENCE.

AC094603 6 GI:30466316

HTG: HTGS PHASE2: HTGS DRAFT; HTGS_FULLTOP.

Rattus norvegicus (Norway rat)

Rattus norvegicus

Rattus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;

Rattus.

1 (bases 1 to 235305)

Murny,D.Marie., Metzker,M.Lee., Abramzon,S., Adams,C., Alder,J.,

Allen,C., Allen,H., Alsbrooks,S., Amin,A., Anguiano,D.,

Anylebechechi,V., Ayoyagi,A., Ayodeji,M., Baca,E., Baden,H.,

Baldwin,D., Bandaranaike,D., Barber,M., Barnstead,M., Benahmed,F.,

Biewalt,K., Blair,J., Blankenburg,K., Blyth,P., Brown,M.,

Bryant,N., Buhay,C., Burch,P., Burrell,K., Calderon,E.,

Cardenas,V., Carter,K., Cavazos,I., Cesar,H., Center,A.,

Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Y., Chen,Z., Chu,J.,

Cleveland,C., Cockrell,R., Cox,C., Coyle,M., Cree,A., D'Souza,L.,

Davila,M.L., Davis,C., Davy-Carroll,L., De Anda,C., Dederich,D.,

Delgado,O., Denson,S., Deramo,C., Ding,Y., Dinh,H., Divya,K.,

Draper,H., Dugan-Rocha,S., Dunn,A., Durbin,K., Duval,B., Eaves,K.,

Egan,A., Escotto,M., Eugene,C., Evans,C.A., Falls,T., Fan,G.,

Fernandez,S., Finley,M., Flagg,N., Forbes,L., Foster,M., Foster,P.,

Fraser,C.M., Gabis,A., Ganta,R., Garcia,A., Garner,T., Garza,M.,

Gebregregis,E., Geer,K., Gill,R., Grady,M., Guerra,W., Guevara,W.,

Gunaratne,P., Haaland,W., Hamil,C., Hamilton,C., Hamilton,K.,

Harvey,Y., Havlak,P., Haves,A., Henderson,N., Hernandez,J.,

Hernandez,R., Hines,S., Hladun,S.L., Hodgson,A., Hogues,M.,

Hollins,B., Howells,S., Hulyk,S., Hume,J., Idlebird,D., Jackson,A.,

Jackson,L., Jacob,L., Jiang,H., Johnson,B., Johnson,R., Jolivet,A.,

Karpachy,S., Kelly,S., Kelly,S., Khan,Z., King,L., Kovar,C.,

Kowis,C., Kraft,C.L., Lebow,H., Levan,J., Lewis,L., Li,Z., Liu,J.,

Liu,J., Liu,W., Liu,Y., London,P., Longacre,S., Lopez,J.,

Lorenshuwa,B., Loulseghe,H., Lozard,R.J., Lu,X., Ma,J.,

Maheshwari,M., Mahindartne,M., Mahmoud,M., Malloy,K., Mangum,A.,

Mangum,B., Mapua,P., Martin,K., Martin,R., Martinez,E.,

Mawhney,S., McLeod,M.P., McNeill,T.Z., Meenen,E.,

Milosavljevic,A., Miner,G., Minja,E., Montemayor,J., Moore,S.,

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Nankervis,C., Neal,D., Newton,N., Nguyen,N., Norris,S.,

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Puazo,M., Quiroz,J., Rachlin,E., Reeves,K., Regier,M.A., Reigh,R.,

Reilly,B., Reilly,M., Ren,Y., Reuter,M., Richards,S., Riggs,F.,

Rives,C., Rooker,T., Rojao,A., Rose,M., Rose,R., Ruiz,S.J.,

Sanders,W., Savery,G., Scherer,S., Scott,G., Shatsman,S., Shen,H.,

Shetty,J., Shvartsbeyn,A., Sisson,I., Sitter,C.D., Smajda,D.,

Sneed,A., Sodergren,E., Song,X.-Z., Sorelle,R., Sosa,J.,

Steimle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C., Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Usmani, K., Valas, R., Vera, V., Villasana, D., Waldron, L., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, K., Wei, X., White, F., Williams, G., Willson, R., Wleciyk, R., Wooden, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, P., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von Niederhausern, A., Weiss, R., Smith, D. R., Holt, R. A., Smith, H. O., Weinstock, G. and Gibbs, R. A.

Direct Submission
Unpublished
2 (bases 1 to 235305)
Worley, K. C.

Direct Submission
Submitted (15-SEP-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 235305)
Rat Genome Sequencing Consortium.

Direct Submission
Submitted (09-MAY-2003) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
On May 9, 2003 this sequence version replaced gi:24818504.
The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: <http://www.hgsc.bcm.tmc.edu/>
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: GAZJ
Center clone name: CH230-3J24
----- Summary Statistics
Assembly program: Atlas;
Consensus quality: 230918 bases at least Q40
Consensus quality: 231629 bases at least Q30
Consensus quality: 232106 bases at least Q20
Estimated insert size: 240688; sum-of-contigs estimation
Quality coverage: 9x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
(see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 1 contigs. Gaps between the contigs
* are represented as runs of N. The order of the pieces
* is believed to be correct as given, however the sizes
* of the gaps between them are based on estimates that have
* provided by the submittor.
* This sequence will be replaced
* by the finished sequence as soon as it is available and
* the accession number will be preserved.
* 1 235305: contig of 235305 bp in length.
* Location/Qualifiers
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complement(1308..2023)
/note="clone_boundary
clone_end:17

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source

misc_feature

site: EcoRI
end_sequence: BH311502"
complement(233651..234141)
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site: EcoRI
end_sequence: BH311503"

ORIGIN

Query Match 13.1%; Score 22; DB 2; Length 235305;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 72 CATTAGATCTGTCAGAAACAC 93
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Db 143087 CATTAGATCTGTCAGAAACAC 143108

RESULT 5
AC094293/c
LOCUS
DEFINITION
Rattus norvegicus clone CH230-3K24, *** SEQUENCING IN PROGRESS ***,
20 unordered pieces.
AC094293
AC094293.7 GI:30467443
HTG; HTGS PHASE1; HTGS DRAFT; HTGS_ENRICHED.
KEYWORDS
Rattus norvegicus (Norway rat)
SOURCE
Rattus norvegicus
ORGANISM
Mammalia; Eutheria; Rodentia; Chordata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa;
Rattus.
REFERENCE
1 (bases 1 to 246625)
Muzny, D., Marie, Metzker, M., Lee, Abramson, S., Adams, C., Alder, J., Allen, C., Allen, H., Alsbrooks, S., Amin, A., Anguiano, D., Anyalebechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H., Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F., Biswal, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M., Bryant, N., Buhay, C., Burch, P., Burrell, K., Calderon, E., Cardenas, V., Carter, K., Cavazos, I., Cesar, H., Center, A., Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Y., Chen, Z., Chu, J., Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L., Davila, M., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D., Delgado, O., Denson, S., Deramo, C., Ding, Y., Dinh, H., Diya, K., Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K., Egan, A., Escotto, M., Eugene, C., Evans, C. A., Falls, T., Fan, G., Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P., Fraser, C. M., Gabisi, A., Ganta, R., Garcia, A., Garner, T., Garza, M., Gebregeorgis, E., Geer, K., Gill, R., Grady, M., Guerra, W., Guevara, W., Gunaratne, P., Haaland, W., Hamill, C., Hamilton, C., Hamilton, J., Harvey, Y., Havlak, P., Hawes, A., Henderson, N., Hernandez, J., Hernandez, R., Hines, S., Hladun, S. L., Hodgson, A., Hogues, M., Hollins, B., Howells, S., Hulyk, S., Hume, J., Idlebird, D., Jackson, A., Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A., Karpach, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C., Kowis, C., Kraft, C. L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J., Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, O., Lorenshewa, L., Loulseghe, H., Lozado, R. J., Lu, X., Ma, J., Maheshwari, M., Mahindartne, M., Mahmoud, M., Malloy, K., Mangum, A., Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, E., Mawhney, S., McLeod, M. P., McNeill, T. Z., Meenen, E., Milobavjevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S., Morgan, M., Morris, K., Morris, S., Munidasa, M., Murphy, M., Nair, L., Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Nwaokemele, O., Okwuonu, G., Olarnpunsagoon, A., Pal, S., Parks, K., Pasternak, S., Paul, H., Perez, A., Perez, L., Pfannkuch, C., Plopper, F., Poindexter, A., Popovic, D., Primus, E., Pu, L., Puzo, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M. A., Reigh, R., Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F., Rives, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruiz, S. J., Sanders, W., Savary, G., Scherer, S., Scott, G., Shatsman, S., Shen, H., Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C. D., Smajs, D., Sneed, A., Sodergren, E., Song, X.-Z., Sorelle, R., Soza, J., Steinle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C.,

Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Usmani, K., Valas, R., Vera, V., Villasana, D., Waldron, L., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F., Williams, G., Willson, R., Wleczek, R., Wood, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, P., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von Niederhausern, A., Weiss, R., Smith, D.R., Holt, R.A., Smith, H.O., Weinstock, G. and Gibbs, R.A.

Direct Submission
Unpublished
2 (bases 1 to 246625)
Worley, K.C.

Direct Submission
Submitted (17-SEP-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 246625)

Rat Genome Sequencing Consortium.
Direct Submission
Submitted (09-MAY-2003) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

On May 9, 2003 this sequence version replaced gi:25188904.
The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'), within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: <http://www.hgsc.bcm.tmc.edu/>
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: GAIN
Center clone name: CH230-3K24
----- Summary Statistics
Assembly program: Atlas
Consensus quality: 184728 bases at least Q40
Consensus quality: 191694 bases at least Q30
Consensus quality: 196691 bases at least Q20
Estimated insert size: 187878; sum-of-contigs estimation
Quality coverage: 5x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 20 contigs. The true order of the pieces
* is, not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

* 1 205043: contig of 205043 bp in length
* 205044 205143: gap of unknown length
* 205144 215060: contig of 9917 bp in length
* 215061 215160: gap of unknown length
* 215161 216255: contig of 1095 bp in length
* 216256 217394: contig of 1039 bp in length
* 217395 217494: gap of unknown length
* 217495 218555: contig of 1061 bp in length
* 218556 220239: contig of 1584 bp in length
* 220240 220240: gap of unknown length

* 220340 222257: contig of 1918 bp in length
* 222258 22357: gap of unknown length
* 22358 223852: contig of 1495 bp in length
* 223853 223952: gap of unknown length
* 223953 22460: contig of 1508 bp in length
* 22461 225560: gap of unknown length
* 225561 226912: contig of 1352 bp in length
* 226913 227012: gap of unknown length
* 227013 228059: contig of 1047 bp in length
* 228060 228159: gap of unknown length
* 228160 229457: contig of 1297 bp in length
* 229458 229556: gap of unknown length
* 229557 230918: contig of 1362 bp in length
* 230919 231018: gap of unknown length
* 231019 232608: contig of 1590 bp in length
* 232609 232708: gap of unknown length
* 232709 233944: contig of 1236 bp in length
* 233945 234044: gap of unknown length
* 234045 237241: contig of 3197 bp in length
* 237242 23817: contig of 1476 bp in length
* 23818 238917: gap of unknown length
* 238918 240337: contig of 1420 bp in length
* 240338 240437: gap of unknown length
* 240439 242451: contig of 2014 bp in length
* 242452 242551: gap of unknown length
* 242552 246625: contig of 4074 bp in length.

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ORIGIN
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Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 72 CATTAGATCTGTGAGAAACAC 93
Db 65928 CATTAGATCTGTGAGAAACAC 65907

RESULT 6
AC117346/c
LOCUS
DEFINITION Rattus norvegicus clone CH230-391F21, WORKING DRAFT SEQUENCE, 3
unordered pieces.
AC117346
ACCESSION
VERSION AC117346.6 GI:24635507
KEYWORDS HTGS PHASE1; HTGS DRAFT; HTGS_FULLTOP.
SOURCE Rattus norvegicus (Norway rat)
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
REFERENCE
1 (bases 1 to 205947)
AUTHORS Muzny, D., Marie, Metzker, M., Lees., Abramson, S., Adams, C., Alder, J., Allen, C., Allen, H., Alsbrooks, S., Amin, A., Angiano, D., Ayalebechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H., Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F., Biswal, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M., Bryant, N., Buhay, C., Burch, P., Burrell, K., Calderon, E., Cardenas, V., Carter, K., Cavazos, I., Caesar, H., Center, A.,

Chacko, J. J., Chavez, D., Chen, G., Chen, R., Chen, Y., Chen, Z., Chu, J., Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L., Davila, M. L., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D., Delgado, O., Dengson, S., Deramo, C., Ding, Y., Dinh, H., Divya, K., Draper, H., Duran-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K., Egan, A., Escotto, M., Eugene, C., Evans, C. A., Falle, T., Fan, G., Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P., Fraser, C. M., Gabisi, A., Ganta, R., Garcia, A., Garner, I., Garza, M., Geobregoris, B., Geer, K., Gali, R., Grady, M., Guerra, W., Guevara, W., Gunaratne, P., Haaland, W., Hamill, C., Hamilton, C., Hamilton, K., Harvey, Y., Havlak, P., Hawes, A., Henderson, N., Hernandez, J., Hernandez, R., Hines, S., Hladun, S. L., Hodgson, A., Hoques, M., Hollins, B., Howells, S., Hulyk, S., Hume, J., Idlebird, D., Jackson, A., Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A., Karpathy, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C., Kowis, C., Kraft, C. L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J., Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J., Lorensushwa, L., Loutseeg, H., Lozado, R. J., Lu, X., Ma, J., Maheshwari, M., Mahindartne, M., Mahmoud, M., Malloy, K., Mangum, A., Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, E., Mawhiney, S., McLeod, M. P., McNeill, T. Z., Meenen, E., Milosavljevic, A., Miner, G., Minja, E., Munidas, M., Montemayor, J., Moore, S., Morgan, M., Morris, K., Morris, S., Munidas, M., Murphy, M., Nair, L., Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Nwaoketemesi, O., Okuonu, G., Olarnpunsagoon, A., Pal, S., Parks, K., Paternak, S., Paul, H., Perez, A., Perez, L., Pfannkuch, C., Plopper, F., Poindexter, A., Popovic, D., Primus, E., Pu, L.-L., Puazo, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M. A., Reigh, R., Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F., Rivers, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruiz, S. J., Sanders, W., Savery, G., Scherer, S., Scott, G., Shacman, S., Shen, H., Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C. D., Smajs, D., Sneed, A., Sodergren, B., Song, X.-Z., Sorelle, R., Soza, J., Steidle, M., Strong, R., Sutton, A., Svatek, A., Tabors, P., Taylor, C., Taylor, T., Thomas, R., Thomas, S., Tingey, A., Trejos, Z., Usmani, K., Valas, R., Vera, V., Villaseana, D., Waldron, L., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F., Williams, G., Willson, R., Wietczyk, R., Wooden, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von Neidethausern, A., Weiss, R., Smith, D. R., Holt, R. A., Smith, H. O., Weinstein, G., and Gibbs, R. A.

TITLE

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

REFERENCE

REFERENCE AUTHORS

TITLE

JOURNAL OF THE

COMMENT

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: <http://www.hgsc.bcm.tmc.edu/>

```

Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: GUBED
Center clone name: CH230-391F21
----- Summary Statistics
Assembly program: Phrap; version 0.990329
Consensus quality: 197835 bases at least Q40
Consensus quality: 199693 bases at least Q30
Consensus quality: 200655 bases at least Q20
Estimated insert size: 202041; sum-of-contigs estimation
Quality coverage: 7x in Q20 bases; sum-of-contigs estimation
-----
* NOTE: Estimated insert size may differ from sequence length
  (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
  * consists of 3 contigs. The true order of the pieces
  * is not known and their order in this sequence record is
  * arbitrary. Gaps between the contigs are represented as
  * runs of N, but the exact sizes of the gaps are unknown.
  * This record will be updated with the finished sequence
  * as soon as it is available and the accession number will
  * be preserved.
  *
  * 1 85750: contig of 85750 bp in length
  * 85751 85850: gap of unknown length
  * 85851 204280: contig of 118430 bp in length
  * 204281 204380: gap of unknown length
  * 204381 205947: contig of 1567 bp in length.
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Best Local Similarity 100.0%; Pred. No. 0.76;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 135 TGAATTTCTGAAGGATGAGAA 155
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Db 64420 TGAATTTCTGAAGGATGAGAA 64400

RESULT 7
AC114722/c
LOCUS
DEFINITION
AC114722
ACCESSION
AC114722.4 GI:25072902
VERSION
HTG; HTGS_PHASE2; HTGS_DRAFT; HTGS_FULLTOP.
KEYWORDS
Rattus norvegicus
SOURCE
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

```

Center code: BCM
Web site: <http://www.hqsc.bcm.tmc.edu/>

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.

1 (bases 1 to 291547)
Muzny D, Marie, Metzker, M. Lee., Abramson, S., Adams, C., Alder, J., Allen, C., Allen, H., Albrooks, S., Amin, A., Anguiano, D., Anyalebechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H., Baldwin, D., Bandaranaika, D., Barber, M., Barnstead, M., Benahmed, F., Biswal, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M., Bryant, N., Buhay, C., Burch, P., Burrell, K., Calderon, E., Cardenas, V., Carter, K., Cavazos, I., Ceasar, H., Center, A., Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Y., Chen, Z., Chu, J., Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L., Davila, M. L., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D., Delgado, O., Denson, S., Duran, A., Ding, Y., Dinh, H., Divya, K., Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K., Egan, A., Escotto, M., Eugene, C., Evans, C. A., Falls, T., Fan, G., Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P., Fraser, C. M., Gabisi, A., Ganta, R., Garcia, A., Garner, T., Garza, M., Gregorogis, E., Geer, K., Gill, R., Grady, M., Guerra, W., Guevara, W., Gunaratne, P., Haaland, W., Hamil, C., Hamilton, C., Hamilton, K., Harvey, Y., Havlak, P., Hawes, A., Henderson, N., Hernandez, J., Hernandez, R., Hines, S., Hladun, S. L., Hodgson, A., Hogues, M., Hollins, B., Howells, S., Hulyk, S., Hume, J., Idlebird, D., Jackson, A., Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jollivet, A., Karpach, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C., Kowib, C., Kraft, C. L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J., Liu, U., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J., Lorehuahua, L., Loulseged, H., Lozano, R. J., Lu, X., Ma, J., Maheshwari, M., Mahindratne, M., Mahmoud, M., Malloy, K., Mangum, A., Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, B., Mawhinney, S., McLeod, M. P., McNeill, T. Z., Meenen, E., Milosavljevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S., Morgan, M., Morris, K., Morris, S., Munidasa, M., Murphy, M., Nair, L., Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Nwackeleme, O., Okwuonu, G., Olarnpunsagoon, A., Pal, S., Parks, K., Pasternak, S., Paul, H., Perez, A., Perez, L., Pfannkuch, C., Plopper, F., Poindexter, A., Popovic, D., Primus, E., Pu, L. L., Puazo, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M. A., Reigh, R., Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F., Rives, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruiz, S. J., Sanders, W., Savary, G., Scherer, S., Scott, G., Shatsman, S., Shen, H., Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C. D., Smajs, D., Sneed, A., Sodergren, E., Song, X. Z., Sorelle, R., Sosa, J., Steimle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C., Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Usmani, K., Valas, R., Vera, V., Villasana, D., Waldron, L., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F., Williams, G., Willson, R., Wleczyk, R., Woodson, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von Niederhausern, A., Weiss, R., Smith, D. R., Holt, R. A., Smith, H. O., Weinstock, G. and Gibbs, R. A.

Direct Submission

Unpublished

2 (bases 1 to 291547)

Worley, K. C.

Direct Submission

Submitted (11-MAR-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

3 (bases 1 to 291547)

Rat Genome Sequencing Consortium.

Direct Submission

Submitted (19-NOV-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

On Nov 19, 2002 this sequence version replaced gi:23265675.

and whole genome shotgun sequencing reads assembled using Atlas (http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated

by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu

----- Project Information
Center project name: GTJR
Center clone name: CH230-60K20

----- Summary Statistics
Assembly program: Phrap; version 0.990329
Consensus quality: 231275 bases at least Q40
Consensus quality: 234311 bases at least Q30
Consensus quality: 235939 bases at least Q20

Estimated insert size: 240124; sum-of-contigs estimation
Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/Genbank draft data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 1 contigs. Gaps between the contigs
* are represented as runs of N. The order of the pieces
* is believed to be correct as given, however the sizes
* of the gaps between them are based on estimates that have
* provided by the submitter.

* This sequence will be replaced
* by the finished sequence as soon as it is available and
* the accession number will be preserved.

* 1 291547: contig of 291547 bp in length.

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/mol_type="genomic DNA"
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ORIGIN

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Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 135 TGAATTTCTGAGGATGAGAA 155

Db 13561 TGAATTTCTGAGGATGAGAA 13541

RESULT 8

AC015339/c

LOCUS

AC015339

DEFINITION

AC015339

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ORIGIN

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QY 118 GCCTTCCCAATGCTGCTGTA 137
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RESULT 11

AC119359 207871 bp DNA linear HTG 20-NOV-2002
 LOCUS Rattus norvegicus clone CH230-466N16, WORKING DRAFT SEQUENCE, 2
 UNORDERED PAGES.

ACCESSION

AC119359

VERSION

HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.

KEYWORDS

Rattus norvegicus (Norway rat)

SOURCE

Rattus norvegicus

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus

1 (bases 1 to 207871)

REFERENCE

Murphy, D. Marie., Metzker, M. Lee., Abramson, S., Adams, C., Alder, J.,
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FEATURES
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 Niederhausern, A., Weiss, R., Smith, D. R., Holt, R. A., Smith, H. O.,
 Weinstein, G. and Gibbs, R. A.
 Direct Submission
 Unpublished
 2 (bases 1 to 207871)
 Worley, K. C.
 Direct Submission
 Submitted (26-APR-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 3 (bases 1 to 207871)
 Rat Genome Sequencing Consortium.
 Direct Submission
 Submitted (20-NOV-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 On Nov 20, 2002 this sequence version replaced gi:23908428.
 The sequence in this assembly is a combination of BAC based reads
 and whole genome shotgun sequencing reads assembled using Atlas
 (http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described
 in the feature table below represents a scaffold in the Atlas
 assembly (a 'contig-scaffold'). Within each contig-scaffold,
 individual sequence contigs are ordered and oriented, and separated
 by sized gaps filled with Ns to the estimated size. The sequence
 may extend beyond the ends of the clone and there may be sequence
 contigs within a contig-scaffold that consist entirely of whole
 genome shotgun sequence reads. Both end sequences and whole genome
 shotgun sequence only contigs will be indicated in the feature
 table.

COMMENT

----- Genome Center
 Center: Baylor College of Medicine
 Center code: BCM
 Web site: http://www.hgsc.bcm.tmc.edu/
 Contact: hgsc-help@bcm.tmc.edu
 ----- Project Information

 Center project name: GVFX
 Center clone name: CH230-466N16
 ----- Summary Statistics
 Assembly program: Phrap; version 0.990329
 Consensus quality: 177278 bases at least Q40
 Consensus quality: 180313 bases at least Q30
 Consensus quality: 181910 bases at least Q20
 Estimated insert size: 183823; sum-of-contigs estimation
 Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
 * (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 2 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

1 206612: contig of 206612 bp in length
 206613 206712: gap of unknown length
 206713 207871: contig of 1159 bp in length.

Location/Qualifiers

1. 207871
 /organism="Rattus norvegicus"
 /mol_type="genomic DNA"
 /db_xref="taxon:10116"
 /clone="CH230-466N16"

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clone_end:Sp6"
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end_sequence:B2216496"
misc_feature      45252. 46059
                  /note="clone_boundary
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                  site:
end_sequence:B2216494"
misc_feature      205108. 206612
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clone_end:T7"

ORIGIN
Query Match      11.9%; Score 20; DB 2; Length 207871;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 132 GTGTGAATTTCTGAAGGATG 151
      |||||
Db 118039 GTGTGAATTTCTGAAGGATG 118058

RESULT 12
AE003511/c
LOCUS      297970 bp DNA linear INV 15-MAR-2004
DEFINITION Drosophila melanogaster chromosome X, section 63 of 74 of the
            complete sequence.
ACCESSION AE003511 AE002593 AE014298
VERSION AE003511.3 Gi:22832537
KEYWORDS
SOURCE
ORGANISM      Drosophila melanogaster (fruit fly)
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
REFERENCE      1 (bases 1 to 297970)
AUTHORS      Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
            Ananidis P.G., Scherer S.E., Li P.W., Hoekins R.A., Galle R.F.,
            Sutton G.G., Worlman J.R., Yandell M.D., Zhang Q., Chen L.X.,
            Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,
            Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
            Abail J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
            Ballou R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
            Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
            Borkova D., Botchan M.R., Bouck J., Brokstein P., Brotter P.,
            Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A.,
            Chandria I., Cherry J.M., Cawley S., Dahlke C., Davenport L.B.,
            Davies P., de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I.,
            Dietz S.M., Dodson K., Doup L.E., Downes M., Dugan-Rocha S.,
            Dunkov B.C., Dunn P., Durbin K.J., Evangelista C., Ferrar C.,
            Ferrieres S., Fleischmann W., Folsler C., Gabriellian A.E., Garg N.S.,
            Gehlhart M.M., Glasser K., Glodek A., Gong F., Gorrell J.H., Gu Z.,
            Guan P., Harris M., Harris N.L., Harvey D., Heiman T.J.,
            Hernandez J.R., Houck J., Hostin D., Houston K.A., Howland T.J.,
            Wei M.H., Ibegwam C., Jalali M., Kalush F., Karpen G.H., Ke Z.,
            Kennison J.A., Ketchum K.A., Kimmel B.E., Kodira C.D., Kraft C.,
            Kravitz S., Kulp D., Lai Z., Lasko P., Lei Y., Levitsky A.A.,
            Li J., Li Z., Liang Y., Lin X., Liu X., Mattei B., McIntosh T.C.,
            McLeod M.P., McPherson D., Merkulov G., Milshina N.V., Moberg C.,
            Morris J., Moshrefi A., Mount S.M., Moy M., Murphy B., Murphy L.,
            Muzny D.M., Nelson D.L., Nelson D.R., Nelson K.A., Nixon K.,
            Nusser D.R., Pacle J.M., Palazzolo M., Pitman G.S., Pan S.,
            Pollard J., Puri V., Reese M.G., Reinert K., Remington K.,
            Saunders R.D., Scheeler F., Shen H., Shue B.C., Siden-Kiamos I.,
            Simpson M., Skupski M.P., Smith T., Spier E., Spradling A.C.,
            Stapleton M., Strong R., Sun E., Svirska R., Tector C., Turner R.,
            Venter E., Wang A.H., Wang X., Wang Z.Y., Wassarman D.A.,

```

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Weinstock, G.M., Weissenbach, J., Williams, S.M., Woodage, T.,
Worley, K.C., Wu, D., Yang, S., Yao, Q.A., Ye, J., Ye, R.F.,
Zaveri, J.S., Zhan, M., Zhao, G., Zhao, Q., Zheng, L., Zheng, X.H.,
Zhong, F.N., Zhong, W., Zhou, X., Zhu, S., Zhu, X., Smith, H.O.,
Gibbs, R.A., Myers, E.W., Rubin, G.M. and Venter, J.C.
The genome sequence of Drosophila melanogaster
Science 287 (5461), 2185-2195 (2000)
20196006
10731132
2 (bases 1 to 297970)
REFERENCE
AUTHORS      Celniker, S.E., Wheeler, D.A., Kronmiller, B., Carlson, J.W.,
            Halpern, A., Patel, S., Adams, M., Champe, M., Dugan, S.P., Frisoe, E.,
            Hodgson, A., George, R.A., Hoskins, R.A., Laverty, T., Muzny, D.M.,
            Nelson, C.R., Pacle, J.M., Park, S., Pfeiffer, B.D., Richards, S.,
            Sodergren, E.J., Svirska, R., Tabor, P.E., Wan, K., Stapleton, M.,
            Sutton, G.G., Venter, C., Weinstock, G., Scherer, S.E., Myers, E.W.,
            Gibbs, R.A. and Rubin, G.M.
            Finishing a whole-genome shotgun: release 3 of the Drosophila
            melanogaster euchromatic genome sequence
            Genome Biol. 3 (12), RESEARCH0079 (2002)
            22426065
            12537568
            3 (bases 1 to 297970)
            Misra, S., Crosby, M.A., Mungall, C.J., Matthews, B.B., Campbell, K.S.,
            Hradecky, P., Huang, Y., Kaminker, J.S., Millburn, G.H., Prochnik, S.E.,
            Smith, C.D., Tupy, J.L., Whitfield, E.J., Bayraktaroglu, L.,
            Berman, B.P., Bettencourt, B.R., Celniker, S.E., de Grey, A.D.,
            Drysdale, R.A., Harris, N.L., Richter, J., Russo, S., Schroeder, A.J.,
            Shu, S.Q., Stapleton, M., Yamada, C., Ashburner, M., Gelbart, W.M.,
            Rubin, G.M. and Lewis, S.E.
            Annotation of the Drosophila melanogaster euchromatic genome: a
            systematic review
            Genome Biol. 3 (12), RESEARCH0083 (2002)
            22426069
            12537572
            4 (bases 1 to 297970)
            Kaminker, J.S., Bergman, C.M., Kronmiller, B., Carlson, J.,
            Svirska, R., Patel, S., Frisoe, E., Wheeler, D.A., Lewis, S.E.,
            Rubin, G.M., Ashburner, M. and Celniker, S.E.
            The transposable elements of the Drosophila melanogaster
            euchromatin: a genomics perspective
            Genome Biol. 3 (12), RESEARCH0084 (2002)
            22426070
            12537573
            5 (bases 1 to 297970)
            Adams, M.D., Celniker, S.E., Gibbs, R.A., Rubin, G.M. and Venter, C.J.
            Direct Submission
            Submitted (21-MAR-2000) Celera Genomics, 45 West Gude Drive,
            Rockville, MD 20850, USA
            6 (bases 1 to 297970)
            FlyBase
            Direct Submission
            Submitted (06-SEP-2002) University of California Berkeley, 539 Life
            Sciences Addition, Berkeley, CA 94720, USA
            7 (bases 1 to 297970)
            FlyBase
            Direct Submission
            Submitted (10-MAR-2004) FlyBase, Harvard University, Biological
            Laboratories, 16 Divinity Avenue, Cambridge, MA 02138, USA
            On Sep 13, 2002 this sequence version replaced gi:10728334.
FEATURES
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```

Theodore.J., Travers,M., Travis,N., Trigilio,J., Vassiliev H.,
Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G.,
Zainoun,J., Zemбек,L., Zimmer,A. and Zody,W.
Direct Submission
Submitted (31-MAR-2001) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Mar 4, 2001 this sequence version replaced gi:13176254.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html
----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu
----- Project Information
Center project name: L1678
Center clone name: 142_J_21
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repeat_region         5771..5796
                        /rpt_family="(GA)n"
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Best Local Similarity 100.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 133 TGTGAATTTCTGAAGGATG 151

|||||
Db 51960 TGTGAATTTCTGAAGGATG 51978

RESULT 14

AC025843

LOCUS AC025843 186716 bp DNA linear HTG 06-MAY-2001
DEFINITION Homo sapiens chromosome 15 clone RP11-313A9 map 15, WORKING DRAFT
SEQUENCE, 18 unordered pieces.

ACCESSION AC025843

VERSION AC025843.3 GI:8076815

KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.

SOURCE Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 186716)

Birren, B., Linton, L., Nusbaum, C. and Lander, E.

TITLE

Homo sapiens chromosome 15, clone RP11-313A9

JOURNAL

Unpublished

REFERENCE

2 (bases 1 to 186716)

AUTHORS

Birren, B., Linton, L., Nusbaum, C., Lander, E., Abrahams, H., Allen, N.,
Anderson, S., Baldwin, J., Barna, N., Bastien, V., Bada, F.,
Boguslavsky, L., Bouckhalter, B., Brown, A., Burkett, G.,
Campiano, A., Castle, A., Choepel, Y., Colangelo, M., Collins, S.,
Collamore, A., Cooke, P., Dearellano, K., Dewar, K., Diaz, J.S.,
Dodge, S., Domino, M., Doyle, M., Ferreira, P., Fitzhugh, W., Gage, D.,
Galagan, J., Gardyna, S., Ginde, S., Goyette, M., Graham, L.,
Grand-Pierre, N., Grant, G., Hagos, B., Heaford, A., Horton, L.,
Howland, J.C., Iliev, I., Johnson, R., Jones, C., Kann, L., Karatas, A.,
Kleih, J., Lacroque, K., Lamazares, R., Landers, T., Lehoczy, J.,
Levine, R., Lieu, C., Liu, G., Locke, K., Macdonald, P., Marquis, N.,
McCarthy, M., McEwan, P., McGurk, A., McKernan, K., McPheeters, R.,
Melchior, J., Meneus, L., Mihova, T., Miranda, C., Mlenga, V., Morrow, J.,
Murphy, T., Navlor, J., Norman, C.H., O'Connor, T., O'Donnell, P.,
O'Neil, D., Oliver, T.M., Oliver, J., Peterson, K., Pierre, N.,
Pischi, C., Pollara, V., Raymond, C., Riley, R., Rogov, P., Rothman, D.,
Roy, A., Santos, R., Schauer, S., Severy, P., Spencer, B.,
Stange-Thomann, N., Stojanovic, N., Subramanian, A., Talamas, J.,
Tesfaye, S., Theodore, J., Tirrell, A., Travers, M., Trigilio, J.,
Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W.J.,
Young, G., Zainoun, J., Zimmer, A. and Zody, M.

TITLE

JOURNAL

Submitted (16-MAR-2000) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA

On May 25, 2000 this sequence version replaced gi:7408040.

All repeats were identified using RepeatMasker:

Smit, A.F.A. & Green, P. (1996-1997)

http://ftp.genome.washington.edu/RM/RepeatMasker.html

----- Genome Center

Center: Whitehead Institute/ MIT Center for Genome Research

Center code: WIBR

Web site: http://www-seq.wi.mit.edu

Contact: sequence_submissions@genome.wi.mit.edu

----- Project Information

Center project name: 16179

Center clone name: 313 A_9

----- Summary Statistics

Sequencing vector: M13; W7815; 100% of reads

Chemistry: Dye-terminator Big Dye; 100% of reads

Assembly program: Phrap; version 0.960731

Consensus quality: 175296 bases at least Q40

Consensus quality: 180588 bases at least Q30

Consensus quality: 183068 bases at least Q20

Insert size: 188000; agarose-fp
Insert size: 185016; sum-of-contigs
Quality coverage: 4.4 in Q20 bases; agarose-fp
Quality coverage: 4.4 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
* consists of 18 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

* 1 1251: contig of 1251 bp in length
* 1252: gap of 100 bp
* 1352: contig of 2663 bp in length
* 4014: gap of 100 bp
* 4114: contig of 1566 bp in length
* 5680: gap of 100 bp
* 5781: contig of 1564 bp in length
* 7345: gap of 100 bp
* 7445: contig of 876 bp in length
* 8320: gap of 100 bp
* 8420: contig of 1507 bp in length
* 9927: gap of 100 bp
* 10027: contig of 1991 bp in length
* 12018: gap of 100 bp
* 12119: contig of 3627 bp in length
* 15745: gap of 100 bp
* 15846: contig of 3908 bp in length
* 19853: gap of 100 bp
* 19854: contig of 8302 bp in length
* 28155: gap of 100 bp
* 28256: contig of 8064 bp in length
* 36313: gap of 100 bp
* 36320: contig of 10930 bp in length
* 47349: gap of 100 bp
* 47450: contig of 13827 bp in length
* 61276: gap of 100 bp
* 61376: contig of 18840 bp in length
* 80216: gap of 100 bp
* 80217: contig of 21276 bp in length
* 101592: gap of 100 bp
* 101593: contig of 24000 bp in length
* 125692: gap of 100 bp
* 125693: contig of 25680 bp in length
* 151472: gap of 100 bp
* 151473: contig of 35144 bp in length.
* 151573: Location/Qualifiers

FEATURES

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/db_xref="taxon:9606"
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1. 1251
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1352. 4014
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4115. 5680
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5781. 7344
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7445. 8320
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vector_side:left
8421. 9927
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misc_feature

misc_feature

misc_feature

misc_feature

misc_feature

misc_feature

misc_feature

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/note="assembly_fragment"
misc_feature      80317..101592
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misc_feature      151573..186716
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ORIGIN
Query Match      11.3%; Score 19; DB 2; Length 186716;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      133  TGTGAATTTCTGAAGGATG 151
          |||||
Db      131167 TGTGAATTTCTGAAGGATG 131185

RESULT 15
AC150648/c
LOCUS      AC150648      190414 bp      DNA      linear      ROD 15-SEP-2004
DEFINITION Mus musculus chromosome 7 clone RP23-235N5, complete sequence.
ACCESSION  AC150648
VERSION    AC150648.2  GI:52077975
KEYWORDS   HTG.
SOURCE     Mus musculus (house mouse)
ORGANISM   Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
            Wilson,R.K.
            The sequence of Mus musculus clone
            Unpublished
REFERENCE   2. (bases 1 to 190414)
AUTHORS    Wilson,R.K.
TITLE      Direct Submission
JOURNAL
REFERENCE   3. (bases 1 to 190414)
AUTHORS    Wilson,R.K.
TITLE      Submitted (15-SEP-2004) Genome Sequencing Center, 4444 Forest Park
JOURNAL    Parkway, St. Louis, MO 63108, USA
REFERENCE   4. (bases 1 to 190414)
AUTHORS    Wilson,R.K.
TITLE      Submitted (15-SEP-2004) Genome Sequencing Center, 4444 Forest Park
JOURNAL    Parkway, St. Louis, MO 63108, USA
COMMENT    On Sep 15, 2004 this sequence version replaced gi:50811813.

----- Genome Center -----
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu
Contact: submissions@wustl.edu
----- Project Information -----
Center project name: M_BA0235N05
----- Location/Qualifiers -----
1. .190414
   /organism="Mus musculus"

misc_feature      12119..15745
/note="assembly_fragment"
misc_feature      15846..19753
/note="assembly_fragment"
misc_feature      19854..28155
/note="assembly_fragment"
misc_feature      28256..36319
/note="assembly_fragment
clone_end:17
vector_side:left"
misc_feature      36420..47349
/note="assembly_fragment"
misc_feature      47450..61276
/note="assembly_fragment"
misc_feature      61377..80216
/note="assembly_fragment"
misc_feature      80317..101592
/note="assembly_fragment"
misc_feature      101693..125692
/note="assembly_fragment"
misc_feature      125793..151472
/note="assembly_fragment"
misc_feature      151573..186716
/note="assembly_fragment"

ORIGIN
Query Match      11.3%; Score 19; DB 10; Length 190414;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      118  GCCTTCCAATGCTGGTGTG 136
          |||||
Db      106866 GCCTTCCAATGCTGGTGTG 106848

Search completed: August 26, 2005, 22:22:31
Job time : 1864.79 secs
```

GenCore version 5.1.6

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OM nucleic - nucleic search, using sw model

Run on: August 26, 2005, 18:47:02 ; Search time 1955.21 Seconds
(without alignments)
4386.526 Million cell updates/sec

Title: US-10-617-978-14_COPY_64_240

Perfect score: 177

Sequence: 1 gctgactcccggaacta.....atggaacgtgaaggtctga 177

Scoring table:

OLIGO NUC
Gapop 60.0 , Gapext 60.0

Searched: 4708233 seqs, 24227607955 residues

Word size : 0

Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

GenEmbl.*

1: gb.ba.*
2: gb.htg.*
3: gb.in.*
4: gb.om.*
5: gb.ov.*
6: gb.pat.*
7: gb.ph.*
8: gb.pl.*
9: gb.pr.*
10: gb.ro.*
11: gb.sts.*
12: gb.sy.*
13: gb.un.*
14: gb.vi.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	22	12.4	126889	10 AC141867	AC141867 Mus muscu
2	22	12.4	213178	10 AC148021	AC148021 Mus muscu
3	22	12.4	234325	2 AC133845	AC133845 Rattus no
4	22	12.4	235305	2 AC094603	AC094603 Rattus no
5	22	12.4	246625	2 AC094293	AC094293 Rattus no
6	21	11.9	205947	2 AC117346	AC117346 Rattus no
7	21	11.9	291547	2 AC114722	AC114722 Rattus no
8	20	11.3	45550	2 AC015339	AC015339 Drosophil
9	20	11.3	169680	3 AC008337	AC008337 Drosophil
10	20	11.3	183048	3 AC012376	AC012376 Drosophil
11	20	11.3	207871	2 AC119359	AC119359 Rattus no
12	20	11.3	297970	3 AB003511	AB003511 Drosophil
13	19	10.7	184568	9 AC009558	AC009558 Homo sapi
14	19	10.7	186716	2 AC025843	AC025843 Homo sapi
15	19	10.7	190414	10 AC150648	AC150648 Mus muscu
16	19	10.7	199810	10 AC125050	AC125050 Mus muscu
17	19	10.7	301448	2 AC097707	AC097707 Rattus no
18	18	10.2	192	3 AY351304	AY351304 Centruroi
19	18	10.2	192	3 AY351305	AY351305 Centruroi

20	18	10.2	192	3	AY351306	AY351306 Centruroi
21	18	10.2	192	3	AY351307	AY351307 Centruroi
22	18	10.2	319	3	AF338459	AF338459 Centruroi
23	18	10.2	320	3	AF338461	AF338461 Centruroi
24	18	10.2	323	3	AF338454	AF338454 Centruroi
25	18	10.2	323	3	AF338455	AF338455 Centruroi
26	18	10.2	323	3	AF338456	AF338456 Centruroi
27	18	10.2	323	3	AF338457	AF338457 Centruroi
28	18	10.2	323	3	AF338458	AF338458 Centruroi
29	18	10.2	323	3	AF338462	AF338462 Centruroi
30	18	10.2	323	3	AF338463	AF338463 Centruroi
31	18	10.2	323	3	AF338464	AF338464 Centruroi
32	18	10.2	819	5	AY553186	AY553186 Centruroi
33	18	10.2	899	5	AB077363	AB077363 Xenopus 1
34	18	10.2	940	8	AY051046	AY051046 Arabidops
35	18	10.2	1206	5	BC056846	BC056846 Xenopus 1
36	18	10.2	1209	5	BC045084	BC045084 Xenopus 1
37	18	10.2	1867	8	AK175540	AK175540 Arabidops
38	18	10.2	1989	8	AF360290	AF360290 Arabidops
39	18	10.2	3045	8	AB089697	AB089697 Fagopyrum
40	18	10.2	3061	8	AB089696	AB089696 Fagopyrum
41	18	10.2	5185	6	CQ717587	CQ717587 Sequence
42	18	10.2	5587	6	AX921066	AX921066 Sequence
43	18	10.2	6846	9	AB011540	AB011540 Homo sapi
44	18	10.2	41601	9	AC004017	AC004017 Homo sapi
45	18	10.2	100627	9	AC007359	AC007359 Homo sapi

ALIGNMENTS

RESULT 1	AC141867	126889 bp	DNA	linear	ROD 27-NOV-2003
LOCUS	Mus musculus BAC clone RP24-424E17 from chromosome 19, complete sequence.				
DEFINITION	AC141867.4 GI:33667259				
ACCESSION	AC141867				
VERSION	HTG.				
KEYWORDS	Mus musculus (house mouse)				
SOURCE	Mus musculus				
ORGANISM	Mus musculus				
REFERENCE	1 (bases 1 to 126889)				
AUTHORS	Shah, N.				
TITLE	The sequence of Mus musculus BAC clone RP24-424E17				
JOURNAL	Unpublished (2001)				
REFERENCE	2 (bases 1 to 126889)				
AUTHORS	Wilson, R.				
TITLE	Sequencing of Mus musculus				
JOURNAL	Unpublished (2001)				
REFERENCE	3 (bases 1 to 126889)				
AUTHORS	McPherson, J.D. and Waterston, R.H.				
TITLE	Direct Submission				
JOURNAL	Submitted (19-MAR-2003) Genome Sequencing Center, 4444 Forest Park Parkway, St. Louis, MO 63108, USA				
REFERENCE	4 (bases 1 to 126889)				
AUTHORS	Wilson, R.K.				
TITLE	Direct Submission				
JOURNAL	Submitted (03-JUL-2003) Genome Sequencing Center, 4444 Forest Park Parkway, St. Louis, MO 63108, USA				
REFERENCE	5 (bases 1 to 126889)				
AUTHORS	Wilson, R.K.				
TITLE	Direct Submission				
JOURNAL	Submitted (15-AUG-2003) Genome Sequencing Center, 4444 Forest Park Parkway, St. Louis, MO 63108, USA				
REFERENCE	6 (bases 1 to 126889)				
AUTHORS	Wilson, R.				
TITLE	Direct Submission				
JOURNAL	Submitted (27-NOV-2003) Department of Genetics, Washington University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA				
COMMENT	On Aug 15, 2003 this sequence version replaced gi:32441365. ----- Genome Center				

Center: Washington University Genome Sequencing Center
 Center code: WUGSC
 Web site: <http://genome.wustl.edu>
 Contact: submissions@watson.wustl.edu
 ----- Summary Statistics
 Center project name: M_BB0424E17

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:

Mapping information for this clone was provided by Dr. Wes Warren, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see <http://genome.wustl.edu>

SOURCE INFORMATION:

The RPCI-24 BAC Library has been constructed by Pieter de Jong and coworkers (<http://www.chori.org>) from male C57BL/6J mouse spleen and/or brain genomic DNA. The clone and detailed information can be obtained from Pieter de Jong and coworkers at <http://www.chori.org>

NEIGHBORING SEQUENCE INFORMATION:

This sequence is the entire insert of the clone.

FEATURES	source
repeat_region	1. .126889 /organism="Mus musculus" /mol_type="genomic DNA" /db_xref="taxon:10090" /chromosome="19" /map="19" /clone="RP24-424E17" /clone.lib="RPCI-24" 61. .144 /rpt_family="B4"
repeat_region	475. .587 /rpt_family="AcHobo"
repeat_region	1530. .1769 /rpt_family="MER2_type"
repeat_region	1851. .2309 /rpt_family="MER2_type"
repeat_region	2328. .2592 /rpt_family="B4"
repeat_region	2667. .2750 /rpt_family="MER2_type"
repeat_region	2787. .2839 /rpt_family="ERV1"
repeat_region	3019. .3196 /rpt_family="L1"
repeat_region	4329. .4553 /rpt_family="B2"
repeat_region	4630. .4748 /rpt_family="B4"
repeat_region	4644. .4804 /rpt_family="MaLR"
repeat_region	5359. .5438 /rpt_family="MER1_type"
repeat_region	5528. .5636 /rpt_family="B2"
repeat_region	6674. .6957 /rpt_family="B4"
repeat_region	7441. .7592 /rpt_family="B4"
repeat_region	/rpt_family="Alu" 7733. .7797 /rpt_family="ERV1" 7852. .7988 /rpt_family="B4" 10219. .10319 /rpt_family="L1" 10430. .10636 /rpt_family="B4" 11101. .11238 /rpt_family="Alu" 11436. .11648 /rpt_family="B2" 12403. .12535 /rpt_family="MIR" 13942. .14026 /rpt_family="L2" 14863. .14986 /rpt_family="MaLR" 15804. .15851 /rpt_family="L2" 15907. .16111 /rpt_family="L2" 16318. .16364 /rpt_family="L2" 16376. .16475 /rpt_family="MaLR" 16658. .16841 /rpt_family="B2" 18345. .18444 /rpt_family="L2" 19872. .19990 /rpt_family="MIR" 21585. .21911 /rpt_family="MaLR" 23518. .23593 /rpt_family="ID" 24449. .24567 /rpt_family="MIR" 26603. .26709 /rpt_family="Alu" 27720. .27775 /rpt_family="Mariner" 28356. .28401 /rpt_family="Mariner" 31094. .31241 /rpt_family="Alu" 31323. .31599 /rpt_family="B4" 32264. .32339 /rpt_family="ID" 32394. .32559 /rpt_family="B2" 32585. .32731 /rpt_family="Alu" 32867. .33064 /rpt_family="MER1_type" 35162. .35332 /notes="Unresolved simple sequence repeat."
repeat_region	35419. .35658 /rpt_family="L1"
repeat_region	37357. .37569 /rpt_family="B2"
repeat_region	38521. .38763 /rpt_family="MER2_type"
repeat_region	39563. .39768 /rpt_family="B2"
repeat_region	40172. .40385 /rpt_family="L1"
repeat_region	40410. .40683 /rpt_family="L1"
repeat_region	43617. .43835 /rpt_family="B4"

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repeat_region 43836..44005
/rpt_family="B4"
repeat_region 44316..44536
/rpt_family="B2"
repeat_region 44782..44985
/rpt_family="MER1_type"
repeat_region 46558..46675
/rpt_family="L1"
repeat_region 46738..47143
/rpt_family="L1"
repeat_region 47216..47495
/rpt_family="L1"
repeat_region 47530..47595
/rpt_family="ERV1"

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Query Match 12.4%; Score 22; DB 10; Length 126889;
Best Local Similarity 100.0%; Pred.No. 0.24; Mismatches 0; Indels 0; Gaps 0;
Matches 22; Conservative 0;

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Qy 81 CATTAAAGATCTGTCAGAAACAC 102
Db 47185 CATTAAAGATCTGTCAGAAACAC 47206

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RESULT 2
AC148021/c 213178 bp DNA linear ROD 29-MAY-2004
LOCUS Mus musculus BAC clone RP23-9A7 from chromosome 19, complete
DEFINITION sequence.
ACCESSION AC148021
VERSION AC148021.2 GI:47825191
KEYWORDS HTG.
SOURCE Mus musculus (house mouse)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
Levy, A., Cotton, M., Haglund, K. and Bielecki, L.
The Sequence of Mus musculus BAC clone RP23-9A7
Unpublished (2001)
REFERENCE 2 (bases 1 to 213178)
Wilson, R.K.
Direct Submission
Submitted (28-JAN-2004) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
3 (bases 1 to 213178)
Wilson, R.K.
Direct Submission
Submitted (29-MAY-2004) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
On May 29, 2004 this sequence version replaced gi:41351753.
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Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu
Contact: submissions@watson.wustl.edu
-----
Summary Statistics
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Center project name: M_BA0009A07

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NOTICE:

This sequence was finished as follows unless otherwise noted:
 all regions were double stranded, sequenced with an alternate
 chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such
 as compressions and repeats; all regions were covered by sequence
 from more than one subclone; and the assembly was confirmed by
 restriction digest.

MAPPING INFORMATION:

Mapping information for this clone was provided by Dr. Wes Warren,

Department of Genetics, Washington University, St. Louis MO. For
 additional information about the map position of this sequence, see
 http://genome.wustl.edu

SOURCE INFORMATION:

The RPCI-23 BAC Library has been constructed by Kazutoyo Oseawa
 and Minako Tatenio in the laboratory of Pieter de Jong
 (http://www.chori.org) from female C57BL/6J mouse kidney and/or
 brain genomic DNA. The clone and detailed information can be
 obtained from Research Genetics, Inc. (http://www.resgen.com) or
 Pieter de Jong and coworkers at http://www.chori.org

NEIGHBORING SEQUENCE INFORMATION:

This sequence is the entire insert of the clone. This clone is
 overlapped by AC134830 and AC140378.

FEATURES	Location/Qualifiers
source	1..213178
	/organism="Mus musculus"
	/mol_type="genomic DNA"
	/db_xref="taxon:10090"
	/chromosome="19"
	/map="19"
	/clone="RP23-9A7"
	/clone_lib="RPCI-23"
	797..899
repeat_region	/rpt_family="L1"
	1041..1292
repeat_region	/rpt_family="B4"
	1520..1924
repeat_region	/rpt_family="RMER17C"
	1708..1972
repeat_region	/rpt_family="ERVK"
	2113..2728
repeat_region	/rpt_family="L1"
	3189..3235
repeat_region	/rpt_family="ERV1"
	4224..4582
repeat_region	/rpt_family="ERV1"
	4583..4804
repeat_region	/rpt_family="MER1_type"
	4805..4850
repeat_region	/rpt_family="ERV1"
	4851..5023
repeat_region	/rpt_family="MaLR"
	5024..5056
repeat_region	/rpt_family="ERV1"
	5880..6128
repeat_region	/rpt_family="L1"
	6270..6641
repeat_region	/rpt_family="L1"
	6834..7274
repeat_region	/rpt_family="L1"
	7408..8060
repeat_region	/rpt_family="L1"
	8132..8261
repeat_region	/rpt_family="Alu"
	8260..8562
repeat_region	/rpt_family="MaLR"
	8262..8304
repeat_region	/rpt_family="B4"
	9073..9310
repeat_region	/rpt_family="L1"
	9831..9903
repeat_region	/rpt_family="ERVK"
	14939..15004
repeat_region	/rpt_family="ID"
	19319..19610
repeat_region	/rpt_family="MaLR"
	23410..23607
repeat_region	/rpt_family="MER1_type"
	24037..24073
repeat_region	/rpt_family="B2"
	24221..24317

Valas, R., Vera, V., Villasana, D., Waldron, L., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F., Williams, G., Willson, R., Wlecyk, R., Wooden, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von Niederhausern, A., Weiss, R., Smith, D.R., Holt, R.A., Smith, H.O., Weinstock, G. and Gibbs, R.A.

Direct Submission

TITLE

JOURNAL

REFERENCE

Rat Genome Sequencing Consortium.

AUTHORS

Submitted (19-SEP-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

REFERENCE

3 (bases 1 to 234325)

AUTHORS

Rat Genome Sequencing Consortium.

JOURNAL

Submitted (10-MAY-2003) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

COMMENT

On May 10, 2003 this sequence version replaced gi:25013050. The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.

----- Genome Center

Center: Baylor College of Medicine

Center code: BCM

Web site: <http://www.hgsc.bcm.tmc.edu/>

Contact: hgsc-help@bcm.tmc.edu

----- Project Information

Center project name: GSVF

Center clone name: CH230-41J2

----- Summary Statistics

Assembly program: Atlas 3.0;

Consensus quality: 224086 bases at least Q40

Consensus quality: 226523 bases at least Q30

Consensus quality: 227917 bases at least Q20

Estimated insert size: 237878; sum-of-contigs estimation

Quality coverage: 6x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
 * (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).

* NOTE: This is a 'working draft' sequence. It currently

* consists of 2 contigs. The true order of the pieces

* is not known and their order in this sequence record is

* arbitrary. Gaps between the contigs are represented as

* runs of N, but the exact sizes of the gaps are unknown.

* This record will be updated with the finished sequence

* as soon as it is available and the accession number will

* be preserved.

* 1 231823: contig of 231823 bp in length

* 231824 231923: gap of unknown length

* 231924 234325: contig of 2402 bp in length.

----- Location/Qualifiers

1..234325

/organism="Rattus norvegicus"

/mol_type="genomic DNA"

/db_xref="taxon:10116"

/clone="CH230-41J2"

1..3168

/note="wgs_end extension

clone_end:Sp6"

6731..53657

/note="clone boundary
 clone_end:Sp6
 site:ECORI
 end_sequence: BH342505"
 complement(230261..231118)
 /note="clone boundary
 clone_end:T7
 site:ECORI
 end_sequence: BH342503"

misc_feature

ORIGIN

Query Match 12.4%; Score 22; DB 2; Length 234325;
 Best Local Similarity 100.0%; Pred. No. 0.23;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 76 GACTGCATTAGATCTGTCTCAGA 97

|||||
 Db 54847 GACTGCATTAGATCTGTCTCAGA 54868

RESULT 4

AC094603

LOCUS

AC094603

DEFINITION

Rattus norvegicus clone CH230-3J24, WORKING DRAFT SEQUENCE.

ACCESSION

AC094603

VERSION

AC094603.6 GI:30466316

KEYWORDS

HTG; HTGS_PHASE2; HTGS_DRAFT; HTGS_FULLTOP.

SOURCE

Rattus norvegicus (Norway rat)

ORGANISM

Rattus norvegicus

REFERENCE

1 (bases 1 to 235305)

AUTHORS

Muzny, D. Marie, Metzker, M. Lee, Abramson, S., Adams, C., Alder, J., Allen, C., Allen, H., Alebrooks, S., Amin, A., Anguiano, D., Anyalebechi, V., Ayoyagi, A., Ayodeji, M., Baca, E., Baden, H., Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F., Biswal, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M., Bryant, N., Buhay, C., Burch, P., Burrell, K., Calderon, E., Cardenas, V., Carter, K., Cavazos, I., Cesari, H., Center, A., Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Y., Chen, Z., Chu, J., Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L., Davila, M. L., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D., Delgado, O., Denson, S., Deramo, C., Ding, Y., Dinh, H., Divya, K., Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K., Egan, A., Escotto, M., Eugene, C., Evans, C. A., Falls, T., Fan, G., Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P., Fraser, C. M., Gabis, A., Ganta, R., Garcia, A., Garner, T., Garza, M., Gebregeorgis, E., Geer, K., Gill, R., Grady, M., Guerra, W., Guevara, W., Gunaratne, P., Haaland, W., Hamil, C., Hamilton, C., Hamilton, K., Harvey, Y., Havlak, P., Haves, A., Henderson, N., Hernandez, J., Hernandez, R., Hines, S., Hladun, S. L., Hodgson, A., Hogues, M., Hollins, B., Howells, S., Hulyk, S., Hume, J., Idlebird, D., Jackson, A., Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jollivet, A., Karpathy, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C., Kowis, C., Kraft, C. L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J., Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J., Lorenshuhwa, L., Louissegh, H., Lozado, R. J., Lu, X., Ma, J., Maheshwari, M., Mahindartne, M., Mahmoud, M., Malloy, K., Mangum, A., Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, E., Mawhney, S., McLeod, M. P., McNeill, T. Z., Meenen, E., Milosavljevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S., Morgan, M., Morris, K., Morris, S., Munidasa, M., Murphy, M., Nair, L., Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Nwaokemele, O., Okwuonu, G., Olarnpunsagoon, A., Pal, S., Parke, K., Pasternak, S., Paul, H., Perez, A., Perez, L., Pfannkuch, C., Plopper, F., Poindexter, A., Popovic, D., Primus, E., Pu, L. L., Puazo, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M. A., Reigh, R., Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F., Rives, C., Rodkey, T., Rojars, A., Rose, M., Rose, R., Ruiz, S. J., Sanders, W., Savery, G., Scherer, S., Scott, G., Shatsman, S., Shen, H., Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C. D., Snajjs, D., Sneed, A., Sodergren, E., Song, X.-Z., Sorelle, R., Sosa, J.,

Steimle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C., Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Umani, K., Valas, R., Vera, V., Villasana, D., Waldron, L., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F., Williams, G., Willson, R., Wleciyk, R., Wooden, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, P., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von Niederhausern, A., Weiss, R., Smith, D.R., Holt, R.A., Smith, H.O., Weinstock, G. and Gibbs, R.A.

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Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Usmani, K., Valas, R., Vera, V., Villasana, D., Waldron, L., Walker, B., Wang, J., Wang, O., Wang, S., Warren, J., Warren, R., Wei, X., White, F., Williams, G., Willson, R., Wleczyk, R., Wooden, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von Niederhausern, A., Weiss, R., Smith, D.R., Holt, R.A., Smith, H.O., Weinstock, G. and Gibbs, R.A.

Direct Submission
Unpublished
2 (bases 1 to 246625)
Worley, K.C.

Direct Submission
Submitted (17-SEP-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 246625)
Baylor Genome Sequencing Consortium.

Direct Submission
Submitted (09-MAY-2003) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
On May 9, 2003 this sequence version replaced gi:25188904.

The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: <http://www.hgsc.bcm.tmc.edu/>
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: GAIN
Center clone name: CH230-3K24
----- Summary Statistics
Assembly program: Atlas;
Consensus quality: 184728 bases at least Q40
Consensus quality: 191694 bases at least Q30
Consensus quality: 196691 bases at least Q20
Estimated insert size: 187878; sum-of-contigs estimation
Quality coverage: 5x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently consists of 20 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

* 1 205043: contig of 205043 bp in length
* 205044 205143: gap of unknown length
* 205144 215060: contig of 9917 bp in length
* 215061 215160: gap of unknown length
* 215161 216255: contig of 1095 bp in length
* 216256 216355: gap of unknown length
* 216356 217394: contig of 1039 bp in length
* 217395 217494: gap of unknown length
* 217495 218555: contig of 1061 bp in length
* 218556 218656: gap of unknown length
* 218656 220239: contig of 1584 bp in length
* 220240 220339: gap of unknown length

* 220340 222257: contig of 1918 bp in length
* 222257 222357: gap of unknown length
* 222358 223852: contig of 1495 bp in length
* 223853 223952: gap of unknown length
* 223953 225460: contig of 1508 bp in length
* 225461 225560: gap of unknown length
* 225561 226912: contig of 1352 bp in length
* 226913 227012: gap of unknown length
* 227013 228059: contig of 1047 bp in length
* 228060 228159: gap of unknown length
* 228160 229456: contig of 1297 bp in length
* 229457 229556: gap of unknown length
* 229557 230918: contig of 1362 bp in length
* 230919 231018: gap of unknown length
* 231019 232608: contig of 1590 bp in length
* 232609 232708: gap of unknown length
* 232709 233944: contig of 1236 bp in length
* 233945 234044: gap of unknown length
* 234045 237241: contig of 3197 bp in length
* 237242 237341: gap of unknown length
* 237342 238817: contig of 1476 bp in length
* 238818 238917: gap of unknown length
* 238918 240337: contig of 1420 bp in length
* 240338 240437: gap of unknown length
* 240438 242451: contig of 2014 bp in length
* 242452 242551: gap of unknown length
* 242552 246625: contig of 4074 bp in length.

FEATURES
Location/Qualifiers
source
1. 246625
/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/db_xref="taxon:10116"
/clone="CH230-3K24"
113870..115506
/note="wgs_contig"
misc_feature
157302..158702
/note="wgs_contig"
misc_feature
188107..190360
/note="wgs_contig"
misc_feature
213846..215060
/note="wgs_contig"
ORIGIN
Query Match 12.4% Score 22; DB 2; Length 246625;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 81 CATTAGATCTGTCTGAGAAACAC 102
|||||
Db 65928 CATTAGATCTGTCTGAGAAACAC 65907

RESULT 6
AC117346/c
LOCUS
DEFINITION Rattus norvegicus clone CH230-391F21, WORKING DRAFT SEQUENCE, 3 linear HTG 19-NOV-2002
AC117346 205947 bp DNA
unordered pieces.
AC117346
ACCESSION AC117346.6 GI:24635507
VERSION HTG; HTGS PHASE1; HTGS DRAFT; HTGS_FULLTOP.
KEYWORDS Rattus norvegicus (Norway rat)
SOURCE Rattus norvegicus
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
REFERENCE 1 (bases 1 to 205947)
AUTHORS Muzny, D., Marie, Metzker, M., Lee, Abramson, S., Adams, C., Alder, J., Allen, C., Allen, H., Alebrooks, S., Amin, A., Angiano, D., Anyalebechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H., Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F., Biewald, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M., Bryant, N., Buhay, C., Burrell, K., Burrell, K., Calderon, E., Cardenas, V., Carter, K., Cavazos, I., Ceasar, H., Center, A.,

Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Y., Chen, Z., Chu, J., Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L., Davila, M.L., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D., Delgado, O., Denson, S., Deramo, C., Ding, Y., Dinh, H., Divya, K., Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K., Egan, A., Escotto, M., Eugene, C., Evans, C.A., Falls, T., Fan, G., Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P., Fraser, C.M., Gabisi, A., Ganta, R., Garcia, A., Garner, T., Garza, M., Gebregorgis, E., Geer, K., Gill, R., Grady, M., Guerra, W., Guevara, W., Gunaratne, P., Haaland, P., Hawes, A., Hamilton, C., Hamilton, K., Harvey, Y., Havlak, P., Hawes, A., Henderson, N., Hernandez, J., Hernandez, R., Hines, S., Hladun, S.L., Hodgson, A., Hogue, M., Hollins, B., Howells, S., Hulyk, S., Hume, J., Idlebird, D., Jackson, A., Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A., Karpachy, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C., Kowis, C., Kraft, C.L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J., Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J., Lorensuhewa, L., Loulseghe, H., Lozado, R.J., Lu, X., Ma, J., Maheshwari, M., Mahindaratne, M., Mahmoud, M., Malloy, K., Mangum, A., Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, E., Mawhinney, S., McLeod, M.P., McNeill, T.Z., Meenen, E., Milosavljevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S., Morgan, M., Morris, K., Morris, S., Munidasa, M., Murphy, M., Nair, L., Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Nwaokeleneh, O., Okwuonu, G., Olarnpunsagoon, A., Pal, S., Parks, K., Pasternak, S., Paul, H., Perez, A., Perez, L., Pfannkoch, C., Plopper, F., Poindexter, A., Popovic, D., Primus, E., Pu, L.-L., Puazo, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M.A., Reigh, R., Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F., Rivera, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruiz, S.J., Sandats, W., Savary, G., Scherer, S., Scott, G., Shatman, S., Shen, H., Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C.D., Smajs, D., Sneed, A., Sodergren, E., Song, X.-Z., Sorelle, R., Sosa, J., Steimle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C., Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Usmani, K., Valas, R., Vera, V., Villaseana, D., Waldron, L., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F., Williams, G., Willson, R., Wleczyk, R., Wooden, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von Niederhausern, A., Weiss, R., Smith, D.R., Holt, R.A., Smith, H.O., Weinstock, G. and Gibbs, R.A.

Direct Submission
Unpublished
2 (bases 1 to 205947)
Worley, K.C.
Direct Submission
Submitted (10-APR-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 205947)
Rat Genome Sequencing Consortium.
Direct Submission
Submitted (19-NOV-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
On Nov 6, 2002 this sequence version replaced gi:23812771.
The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: <http://www.hgsc.bcm.tmc.edu/>

Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: GUSD
Center clone name: CH230-391F21
----- Summary Statistics
Assembly program: Phrap; version 0.990329
Consensus quality: 197835 bases at least Q40
Consensus quality: 199693 bases at least Q30
Estimated insert size: 202041; sum-of-contigs estimation
Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 3 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 85750: contig of 85750 bp in length
* 85751 85850: gap of unknown length
* 85851 204280: contig of 118430 bp in length
* 204281 204390: gap of unknown length
* 204391 205947: contig of 1567 bp in length.
----- Location/Qualifiers
source
1. 205947
/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/db_xref="taxon:10116"
/clone="CH230-391F21"
1. 1121
/notes="wgs_end_extension"
clone_end:77"
1478. -2516
/note="wgs_end_extension"
clone_end:77"
2275. 72955
/notes="clone_boundary"
clone_end:77"
site:
end sequence:BZ2111748"
complement(5314. 6288)
/notes="clone_boundary"
clone_end:Sp6
site:
end sequence:BZ2111750"
85851. 88132
/notes="wgs_end_extension"
clone_end:Sp6"
ORIGIN
Query Match 11.9%; Score 21; DB 2; Length 205947;
Best Local Similarity 100.0%; Pred. No. 0.87;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 144 TGAATTTCTGAGGATGAGAA 164
|||||
Db 64420 TGAATTTCTGAGGATGAGAA 64400
RESULT 7
AC114722/c
LOCUS
DEFINITION Rattus norvegicus clone CH230-60K20, WORKING DRAFT SEQUENCE.
ACCESSION AC114722
VERSION AC114722.4 GI:25072902
KEYWORDS HTGS_PHASE2; HTGS_DRAFT; HTGS_FULLTOP.
SOURCE Rattus norvegicus (Norway rat)
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;

1 (bases 1 to 291547)
 Muzny D, Marie, Metzker, M. Lee., Abramson, S., Adams, C., Alder, J.,
 Allen, C., Allen, H., Albrooks, S., Amin, A., Anguiano, D.,
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 Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K.,
 Egan, A., Escotto, M., Eugene, C., Evans, C. A., Falls, T., Fan, G.,
 Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, P.,
 Fraser, C. M., Gabisi, A., Ganta, R., Garcia, A., Garner, T., Garza, M.,
 Gebregregis, E., Geer, K., Gill, R., Grady, M., Guerra, W., Guevara, W.,
 Gunaratne, P., Haaland, W., Hamill, C., Hamilton, C., Hamilton, K.,
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 Karpach, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C.,
 Kowis, C., Kraft, C. L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J.,
 Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J.,
 Lorensuewa, L., Loulseged, H., Lozano, R. J., Lu, X., Ma, J.,
 Maheshwari, M., Mahindratne, M., Mahmoud, M., Malloy, K., Mangum, A.,
 Mangum, B., Mapa, P., Martin, K., Martin, R., Martinez, B.,
 Mawhinney, S., McLeod, M. P., McNeill, T. Z., Meenen, E.,
 Milosavljevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S.,
 Morgan, M., Morris, K., Morris, S., Munidasa, M., Murphy, M., Nair, L.,
 Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Parks, K.,
 Nwackeleme, O., Okwuonu, G., Olarnpunsagoon, A., Pal, S., Parks, K.,
 Pasternak, S., Paul, H., Perez, A., Perez, L., Pfamkoch, C.,
 Plopper, F., Poinexter, A., Popovic, D., Primus, E., Pu, L.-L.,
 Puzo, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M. A., Reigh, R.,
 Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F.,
 Rives, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruiz, S. J.,
 Sanders, M., Savary, G., Scherer, S., Scott, G., Shatsman, S., Shen, H.,
 Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C. D., Smajs, D.,
 Sneed, A., Sodergren, E., Song, X.-Z., Sorelle, R., Sosa, J.,
 Steimle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C.,
 Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Usmani, K.,
 Valas, R., Vera, V., Villanasa, D., Waldron, L., Walker, B., Wang, J.,
 Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F.,
 Williams, G., Willson, R., Wleczky, R., Wooden, H., Worley, K.,
 Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V.,
 Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von
 Niederhausen, A., Weiss, R., Smith, D. R., Holt, R. A., Smith, H. O.,
 Weinstein, G. and Gibbs, R. A.
 Direct Submission
 Unpublished
 2 (bases 1 to 291547)
 Worley, K. C.
 Direct Submission
 Submitted (11-MAR-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 3 (bases 1 to 291547)
 Rat Genome Sequencing Consortium.
 Direct Submission
 Submitted (19-NOV-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 On Nov 19, 2002 this sequence version replaced gi:23265675.
 The sequence in this assembly is a combination of BAC based reads
 and whole genome shotgun sequencing reads assembled using Atlas
 (http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described
 in the feature table below represents a scaffold in the Atlas
 assembly (a 'contig-scaffold'). Within each contig-scaffold,
 individual sequence contigs are ordered and oriented, and separated

by sized gaps filled with Ns to the estimated size. The sequence
 may extend beyond the ends of the clone and there may be sequence
 contigs within a contig-scaffold that consist entirely of whole
 genome shotgun sequence reads. Both end sequences and whole genome
 shotgun sequence only contigs will be indicated in the feature
 table.

----- Genome Center
 Center: Baylor College of Medicine
 Center code: BCM
 Web site: http://www.hgsc.bcm.tmc.edu/
 Contact: hgsc-help@bcm.tmc.edu
 ----- Project Information
 Center project name: GTJR
 Center clone name: CH230-60K20
 ----- Summary Statistics
 Assembly program: Phrap; version 0.990329
 Consensus quality: 231275 bases at least Q40
 Consensus quality: 234311 bases at least Q30
 Consensus quality: 235939 bases at least Q20
 Estimated insert size: 240124; sum-of-contigs estimation
 Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
 * (see http://www.hgsc.bcm.tmc.edu/docs/Genbank draft data.html).
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 1 contigs. Gaps between the contigs
 * are represented as runs of N. The order of the pieces
 * is believed to be correct as given, however the sizes
 * of the gaps between them are based on estimates that have
 * provided by the submitter.
 * This sequence will be replaced
 * by the finished sequence as soon as it is available and
 * the accession number will be preserved.
 * 1 291547: contig of 291547 bp in length.

FEATURES
 source
 1. .291547
 /organism="Rattus norvegicus"
 /mol_type="genomic DNA"
 /db_xref="taxon:10116"
 /clone="CH230-60K20"
 misc_feature
 1. .1044
 /notes="wgs end_extension
 clone_end:Sp6"
 misc_feature
 complement(8119..8720)
 /notes="clone boundary
 clone_end:Sp6
 site:
 end sequence:BH365931"
 21921..119834
 /notes="clone boundary
 clone_end:T7
 site:
 end sequence:BH365929"
 32443..34180
 /notes="wgs end_extension
 clone_end:T7"

ORIGIN
 Query Match 11.9%; Score 21; DB 2; Length 291547;
 Best Local Similarity 100.0%; Pred. No. 0.85;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 144 TGAATTTCTGAAGTACGAA 164
 Db 13561 TGAATTTCTGAAGTACGAA 13541
 RESULT 8
 AC015339/c
 LOCUS
 DEFINITION Drosophila melanogaster, *** SEQUENCING IN PROGRESS ***.
 AC015339
 ACCESSION
 VERSION AC015339.1 GI:6435996

KEYWORDS HTG: HTGS PHASE2.

SOURCE Drosophila melanogaster (fruit fly)

ORGANISM Drosophila melanogaster

REFERENCE Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.

AUTHORS 1 (bases 1 to 45550)

TITLE Adams,M. and Venter,J.C.

JOURNAL Direct Submission

COMMENT Submitted (16-NOV-1999) Celera Genomics, 45 West Gude Drive, Rockville, MD, USA

For further information on this sequence e-mail to fly@celera.com.

* NOTE: This is a 'working draft' sequence.

* This sequence will be replaced

* by the finished sequence as soon as it is available and

* the accession number will be preserved.

FEATURES

source 1..45550

Location/Qualifiers

1..45550

/organism="Drosophila melanogaster"

/mol_type="genomic DNA"

/db_xref="taxon:7227"

ORIGIN

Query Match 11.3%; Score 20; DB 2; Length 45550;

Best Local Similarity 100.0%; Pred. No. 3.7;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 127 GCCTTCCAATGCTGGTGTGA 146

|||||

Db 34535 GCCTTCCAATGCTGGTGTGA 34516

|||||

RESULT 9

AC008337/c

LOCUS AC008337 169680 bp DNA linear INV 31-JUL-2004

DEFINITION Drosophila melanogaster clone BACR02B03, complete sequence.

ACCESSION AC008337

VERSION AC008337.8 GI:50872396

KEYWORDS HTG.

SOURCE Drosophila melanogaster (fruit fly)

ORGANISM Drosophila melanogaster

Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.

REFERENCE 1 (bases 1 to 169680)

AUTHORS Celniker,S.E., Agbayani,A., Arcaina,T.T., Baxter,E., Blazej,R.G., Butenhoff,C., Champe,M., Chavez,C., Chew,M., Ciesiolka,L., Doyle,C.M., Farfan,D.E., Galle,R., George,R.A., Harris,N.L., Hoskins,R.A., Houston,K.A., Hummasti,S.R., Karra,K., Kearney,L., Kim,E., Lee,B., Lewis,S., Li,P., Lomotan,M.A., Mazda,P., Moshrefi,A.R., Moshrefi,M., Nixon,K., Pacleb,J.M., Park,S., Pfeiffer,B., Poon,L., Sequeira,A., Sethi,H., Snir,E., Svirkas,R.R., Wan,K.H., Weinburg,T., Zhang,R., Zieran,L.L. and Rubin,G.M.

TITLE Direct Submission

JOURNAL Submitted (02-AUG-1999) Drosophila Genome Center, Lawrence Berkeley Laboratory, MS 64-121, Berkeley, CA 94720, USA

REFERENCE 2 (bases 1 to 169680)

AUTHORS Celniker,S., Carlson,J., Wan,K., Pfeiffer,B., Frise,E., George,R., Hoskins,R., Stapleton,M., Pacleb,J., Park,S., Svirkas,R., Smith,E., Yu,C. and Rubin,G.

TITLE Direct Submission

JOURNAL Submitted (31-JUL-2004) Berkeley Drosophila Genome Project, MS 64-121, Lawrence Berkeley National Laboratory, One Cyclotron Road, Berkeley, CA 94720, US

COMMENT On Jul 31, 2004 this sequence version replaced gi:15451507.

Sequence submitted by:

Berkeley Drosophila Genome Project

Lawrence Berkeley National Laboratory

Berkeley, CA 94720

This sequence submission incorporates changes made during reevaluation of the assembly or fingerprint verification of the

clone. For further information about this sequence, including its location and relationship to other sequences, please visit our sequence archive Web site (<http://www.fruitfly.org/sequence/>) or send email to bdgp@fruitfly.org.

FEATURES

source 1..169680

Location/Qualifiers

1..169680

/organism="Drosophila melanogaster"

/mol_type="genomic DNA"

/strain="y; cn bw sp"

/db_xref="taxon:7227"

/chromosome="X"

/map="18A-18B"

/clone="BAC clone BACR02B03 (D902)"

/clone_lib="RPCI-98 (Roswell Park Cancer Institute Drosophila melanogaster BAC library, partial EcoRI in pBACE3.6)"

ORIGIN

Query Match 11.3%; Score 20; DB 3; Length 169680;

Best Local Similarity 100.0%; Pred. No. 3.4;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 127 GCCTTCCAATGCTGGTGTGA 146

|||||

Db 113927 GCCTTCCAATGCTGGTGTGA 113908

|||||

RESULT 10

AC012376/c

LOCUS AC012376 183048 bp DNA linear INV 31-JUL-2004

DEFINITION Drosophila melanogaster clone BACR48C12, complete sequence.

ACCESSION AC012376

VERSION AC012376.12 GI:50872344

KEYWORDS HTG.

SOURCE Drosophila melanogaster (fruit fly)

ORGANISM Drosophila melanogaster

Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.

REFERENCE 1 (bases 1 to 183048)

AUTHORS Celniker,S.E., Agbayani,A., Arcaina,T.T., Baxter,E., Blazej,R.G., Butenhoff,C., Champe,M., Chavez,C., Chew,M., Ciesiolka,L., Doyle,C.M., Farfan,D.E., Galle,R., George,R.A., Harris,N.L., Hoskins,R.A., Houston,K.A., Hummasti,S.R., Karra,K., Kearney,L., Kim,E., Lee,B., Lewis,S., Li,P., Lomotan,M.A., Mazda,P., Moshrefi,A.R., Moshrefi,M., Nixon,K., Pacleb,J.M., Park,S., Pfeiffer,B., Poon,L., Sequeira,A., Sethi,H., Snir,E., Svirkas,R.R., Wan,K.H., Weinburg,T., Zhang,R., Zieran,L.L. and Rubin,G.M.

TITLE Direct Submission

JOURNAL Submitted (26-OCT-1999) Drosophila Genome Center, Lawrence Berkeley Laboratory, MS 64-121, Berkeley, CA 94720, USA

REFERENCE 2 (bases 1 to 183048)

AUTHORS Celniker,S., Carlson,J., Wan,K., Pfeiffer,B., Frise,E., George,R., Hoskins,R., Stapleton,M., Pacleb,J., Park,S., Svirkas,R., Smith,E., Yu,C. and Rubin,G.

TITLE Direct Submission

JOURNAL Submitted (31-JUL-2004) Berkeley Drosophila Genome Project, MS 64-121, Lawrence Berkeley National Laboratory, One Cyclotron Road, Berkeley, CA 94720, US

COMMENT On Jul 31, 2004 this sequence version replaced gi:13324739.

Sequence submitted by:

Berkeley Drosophila Genome Project

Lawrence Berkeley National Laboratory

Berkeley, CA 94720

This sequence submission incorporates changes made during reevaluation of the assembly or fingerprint verification of the

clone. For further information about this sequence, including its location and relationship to other sequences, please visit our sequence archive Web site (<http://www.fruitfly.org/sequence/>) or send email to bdgp@fruitfly.org.

FEATURES

source 1..183048

Location/Qualifiers

1..183048

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/organism="Drosophila melanogaster"
/mol_type="genomic DNA"
/strain="Y: cn bw sp"
/db_xref="taxon:7227"
/chromosome="X"
/map="18B-18B"
/clone="BAC clone BACR48C12 (D1122)"
/clone_lib="RPCI-98 (Roswell Park Cancer Institute
Drosophila melanogaster BAC library, partial EcORI in
pBACE3.6)"

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ORIGIN

```

Query Match      11.3%; Score 20; DB 3; Length 183048;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 127 GCCTTCCCAATGCTGGTGTGA 146
      |||||
Db 66140 GCCTTCCCAATGCTGGTGTGA 66121

```

RESULT 11

```

AC119359          207871 bp  DNA  linear  HTG 20-NOV-2002
LOCUS             Rattus norvegicus clone CH230-466N16, WORKING DRAFT SEQUENCE, 2
DEFINITION        unordered pieces.
ACCESSION         AC119359
VERSION           AC119359.5 GI:25137741
KEYWORDS           HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
SOURCE            Rattus norvegicus (Norway rat)
ORGANISM          Rattus norvegicus

```

```

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.

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REFERENCE

```

1 (Bases 1 to 207871)
Muzny,D.Marie., Metzker,M.Lee., Abramzon,S., Adams,C., Alder,J.,
Allen,C., Allen,H., Albrooks,S., Amin,A., Anguiano,D.,
Anyalebechi,V., Aoyagi,A., Ayodeji,M., Baca,E., Baden,H.,
Baldwin,D., Bandaranaike,D., Barber,M., Barnstead,M., Benahmed,P.,
Biswal,K., Blair,J., Blankenburg,K., Blyth,P., Brown,M.,
Bryant,N., Buhay,C., Burch,P., Burrell,K., Calderon,E.,
Cardenas,V., Carter,K., Cavazos,I., Ceasar,H., Center,A.,
Chacko,J., Chavez,D., Chen,G., Chen,X., Chen,Z., Chu,J.,
Cleveland,C., Cockrell,R., Cox,C., Coyle,M., Cree,A., D'Souza,L.,
Davila,M.L., Davis,C., Davy-Carroll,L., De Anda,C., Dederich,D.,
Delgado,O., Dengson,S., Deramo,C., Ding,Y., Dinh,H., Divya,K.,
Draper,H., Dugan-Rocha,S., Dunn,A., Durbin,K., Duval,B., Eaves,K.,
Egan,A., Escotto,M., Eugene,C., Evans,C.A., Falls,T., Fan,G.,
Fernandez,S., Finley,M., Flagg,N., Forbes,L., Foster,M., Foster,P.,
Fraser,C.M., Gabisi,A., Ganta,R., Garcia,A., Garner,T., Garza,M.,
Gebrtgeorgis,E., Geer,K., Gill,R., Grady,M., Guerra,W., Guevara,W.,
Gunaratne,P., Haaland,W., Hamil,C., Hamilton,C., Hamilton,K.,
Harvey,Y., Havlak,P., Hawes,A., Henderson,N., Hernandez,J.,
Hernandez,R., Hines,S., Hladun,S.L., Hodgson,A., Hogues,M.,
Jackson,L., Jacobs,L., Jiang,H., Johnson,B., Johnson,R., Jolivet,A.,
Karpachy,S., Kelly,S., Kelly,S., Khan,Z., King,L., Kovar,C.,
Kowis,C., Kraft,C.L., Lebow,H., Levan,J., Lewis,L., Li,Z., Liu,J.,
Liu,J., Liu,W., Liu,Y., London,P., Longacre,S., Lopez,J.,
Lorensuhewa,L., Loulseghe,H., Lozado,R.J., Lu,X., Ma,J.,
Maheshwari,M., Mahindaratne,M., Mahmoud,M., Malloy,K., Mangum,A.,
Mangum,B., Mapua,P., Martin,K., Martin,R., Martinez,E.,
Mawhinney,S., McLeod,M.P., McNeill,T.Z., Meenen,E.,
Milosavljevic,A., Miner,G., Minja,E., Montemayor,J., Moore,S.,
Morgan,M., Morris,K., Morris,S., Munidas,M., Murphy,M., Nair,L.,
Nankervis,C., Neal,D., Newton,N., Nguyen,N., Norris,S.,
Nwaokelenh,O., Okwuonu,G., Olarnpunsagoon,A., Pal,S., Parks,K.,
Pasternak,S., Paul,H., Perez,A., Perez,I., Pfannkoch,C.,
Plopper,F., Poindexter,A., Popovic,D., Primus,E., Pu,L.-L.,
Puazo,M., Quiroz,J., Rachlin,E., Reeves,K., Regier,M.A., Reigh,R.,
Reilly,B., Reilly,M., Ren,Y., Reuter,M., Richards,S., Riggs,F.,
Rives,C., Rodkey,T., Rojas,A., Rose,M., Rose,R., Ruiz,S.J.,
Sanders,W., Savery,G., Scherer,S., Scott,G., Shatsman,S., Shen,H.,

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Shetty,J., Shvartsbeyn,A., Sisson,I., Sitter,C.D., Smaje,D.,
Sneed,A., Sodergren,E., Song,X.-Z., Sorelle,R., Sosa,J.,
Steimle,M., Strong,R., Sutton,A., Svatek,A., Tabor,P., Taylor,C.,
Taylor,T., Thomas,N., Thomas,S., Tingey,A., Trejos,Z., Usmani,K.,
Valas,R., Vera,V., Villasana,D., Waldron,L., Walker,B., Wang,J.,
Wang,Q., Wang,S., Warren,J., Warren,R., Wei,X., White,F.,
Williams,G., Willson,R., Wleczyk,R., Wooden,H., Worley,K.,
Wright,D., Wright,R., Wu,J., Yakub,S., Yen,J., Yoon,L., Yoon,V.,
Yu,F., Zhang,J., Zhou,X., Zhao,S., Dunn,D., von
Niederhausern,A., Weiss,R., Smith,D.R., Holt,R.A., Smith,H.O.,
Weinstock,G. and Gibbs,R.A.
Direct Submission
Unpublished
2 (bases 1 to 207871)
Worley,K.C.
Direct Submission
Submitted (26-APR-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 207871)
Rat Genome Sequencing Consortium.
Direct Submission
Submitted (20-NOV-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
On Nov 20, 2002 this sequence version replaced gi:23908428.
The sequence in this assembly is a combination of BAC based reads
and whole genome shotgun sequencing reads assembled using Atlas
(http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described
in the feature table below represents a scaffold in the Atlas
assembly (a 'contig-scaffold'). Within each contig-scaffold,
individual sequence contigs are ordered and oriented, and separated
by sized gaps filled with Ns to the estimated size. The sequence
may extend beyond the ends of the clone and there may be sequence
contigs within a contig-scaffold that consist entirely of whole
genome shotgun sequence reads. Both end sequences and whole genome
shotgun sequence only contigs will be indicated in the feature
table.

```

COMMENT

```

----- Genome Center
Center: Baylor College of Medicine

```

```

Center code: BCM

```

```

Web site: http://www.hgsc.bcm.tmc.edu/

```

```

Contact: hgsc-help@bcm.tmc.edu

```

```

----- Project Information

```

```

Center project name: GVFX

```

```

Center clone name: CH230-466N16

```

```

----- Summary Statistics

```

```

Assembly program: Phrap; version 0.990329

```

```

Consensus quality: 177278 bases at least Q40

```

```

Consensus quality: 180313 bases at least Q30

```

```

Consensus quality: 181910 bases at least Q20

```

```

Estimated insert size: 183823; sum-of-contigs estimation

```

```

Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

```

```

-----

```

```

* NOTE: Estimated insert size may differ from sequence length
(see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
consists of 2 contigs. The true order of the pieces
is not known and their order in this sequence record is
arbitrary. Gaps between the contigs are represented as
runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
as soon as it is available and the accession number will
be preserved.

```

```

1 206612: contig of 206612 bp in length

```

```

206613 206712: gap of unknown length

```

```

206713 207871: contig of 1159 bp in length.

```

```

Location/Qualifiers

```

```

1..207871

```

```

/organism="Rattus norvegicus"

```

```

/mol_type="genomic DNA"

```

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/db_xref="taxon:10116"

```

```

/clone="CH230-466N16"

```

FEATURES

```

source

```

```

misc_feature      1..1047
                  /note="wgs_end_extension
clone_end:Sp6"
misc_feature      24305..25227
                  /note="clone_boundary
clone_end:Sp6
site:
end_sequence:BZ216496"
45252..46059
/clone="clone_boundary
clone_end:T7
site:
end_sequence:BZ216494"
205108..206612
/clone="wgs_end_extension
clone_end:T7"

ORIGIN
Query Match      11.3%; Score 20; DB 2; Length 207871;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 141 GTGTGAATTTCTGAAGGATG 160
      |||||
Db 118039 GTGTGAATTTCTGAAGGATG 118058

RESULT 12
AE003511/c
LOCUS
DEFINITION Drosophila melanogaster chromosome X, section 63 of 74 of the
complete sequence.
ACCESSION AE003511 AE002593 AE014298
VERSION AE003511.3 Gi:22832537
KEYWORDS
SOURCE
ORGANISM Drosophila melanogaster (fruit fly)
Drosophila melanogaster
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
1 (bases 1 to 297970)
Adams M.D., Celniker S.E., Holt R.A., Evans, C.A., Gocayne J.D.,
Ananides, P.G., Scherer S.E., Li, P.W., Hoskins R.A., Galle, R.F.,
George, R.A., Lewis S.E., Richards, S., Ashburner, M., Henderson, S.N.,
Sutton, G.G., Wortman, J.R., Yandell, M.D., Zhang, Q., Chen, L.X.,
Brandon, R.C., Rogers, Y.H., Blazej, R.G., Champe, M., Pfeiffer, B.D.,
Wan, K.H., Doyle, C., Baxter, E.G., Helt, G., Nelson, C.R., Gabor, G.L.,
Abril, J.F., Agbayani, A., An, H.J., Andrews-Pfannkoch, C., Baldwin, D.,
Ballew, R.M., Basu, A., Baxendale, J., Bayraktaroglu, L., Beasley, E.M.,
Beeson, K.Y., Benos, P.V., Berman, B.P., Bhandari, D., Bolshakov, S.,
Borkova, D., Botchan, M.R., Bouck, J., Brokstein, P., Brotter, P.,
Burtis, K.C., Busam, D.A., Butler, H., Cadieu, E., Center, A.,
Chandra, I., Cherry, J.M., Cawley, S., Dahlke, C., Davenport, L.B.,
Davies, P., de Pablo, B., Delcher, A., Deng, Z., Mays, A.D., Dew, I.,
Dietz, S.M., Dodson, K., Dou, L.E., Downes, M., Dugan-Rocha, S.,
Dunkov, B.C., Dunn, P., Durbin, K.J., Evangelista, C.C., Ferraz, C.,
Ferriera, S., Fleischmann, W., Fosler, C., Gabrielian, A.E., Garg, N.S.,
Gelbart, M.M., Glasser, K., Glodek, A., Gong, F., Gorrell, J.H., Gu, Z.,
Guan, P., Harris, M., Harris, N.L., Harvey, D., Heiman, T.J.,
Hernandez, J.R., Houck, J., Hostin, D., Houston, K.A., Howland, T.J.,
Wei, M.H., Ibegwam, C., Jalali, M., Kalush, F., Karpen, G.H., Ke, Z.,
Kennison, J.A., Ketchum, K.A., Kimmel, B.E., Kodira, C.D., Kraft, C.,
Kravitz, S., Kulp, D., Lai, Z., Lasoko, P., Lei, Y., Levitsky, A.A.,
Li, J., Li, Z., Liang, Y., Lin, X., Liu, X., Mattel, B., McIntosh, T.C.,
McLeod, M.P., McPherson, D., Merkulov, G., Milshina, N.V., Moberly, C.,
Morris, J., Moshrefi, A., Mount, S.M., Moy, M., Murphy, B., Murphy, L.,
Muzny, D.M., Nelson, D.L., Nelson, D.R., Nelson, K.A., Nixon, K.,
Nusskern, D.R., Pacle, J.M., Palazzolo, M., Pittman, G.S., Pan, S.,
Pollard, J., Puri, V., Reese, M.G., Reinert, K., Remington, K.,
Saunders, R.D., Scheeler, F., Shen, H., Shue, B.C., Siden-Kiamos, I.,
Simpson, M., Skupski, M.P., Smith, T., Spier, E., Spradling, A.C.,
Stapleton, M., Strong, R., Sun, E., Svirska, R., Tector, C., Turner, R.,
Venter, E., Wang, A.H., Wang, X., Wang, Z.Y., Wasserman, D.A.,
Weinstock, G.M., Weissenbach, J., Williams, S.M., Woodage, T.,
Worley, K.C., Wu, D., Yang, S., Yao, Q.A., Ye, J., Yeh, R.F.,
Zaveri, J.S., Zhan, M., Zhang, G., Zhao, Q., Zheng, L., Zheng, X.H.,
Zhong, F.N., Zhong, W., Zhou, X., Zhu, S., Zhu, X., Smith, H.O.,
Gibbs, R.A., Myers, E.W., Rubin, G.M. and Venter, J.C.
The genome sequence of Drosophila melanogaster
Science 287 (5461), 2185-2195 (2000)

TITLE JOURNAL MEDLINE PUBMED
REFERENCE
AUTHORS
2 (bases 1 to 297970)
10731132
Celniker, S.E., Wheeler, D.A., Kronmiller, B., Carlson, J.W.,
Halpern, A., Patel, S., Adams, M., Champe, M., Dugan, S.P., Frisoe, E.,
Hodgson, A., George, R.A., Hoskins, R.A., Laverty, T., Muzny, D.M.,
Nelson, C.R., Pacle, J.M., Park, S., Pfeiffer, B.D., Richards, S.,
Sodergren, E.J., Svirska, R., Tabor, P.E., Wan, K., Stapleton, M.,
Sutton, G.G., Venter, C., Weinstock, G., Scherer, S.E., Myers, E.W.,
Gibbs, R.A. and Rubin, G.M.
Finishing a whole-genome shotgun: release 3 of the Drosophila
melanogaster euchromatic genome sequence
Genome Biol. 3 (12), RESEARCH0079 (2002)
22426065
12537568
3 (bases 1 to 297970)
Misra, S., Crosby, M.A., Mungall, C.J., Matthews, B.B., Campbell, K.S.,
Khradecky, P., Huang, Y., Kaminker, J.S., Milburn, G.H., Prochnik, S.E.,
Smith, C.D., Tupy, J.L., Whitfield, E.J., Bayraktaroglu, L.,
Berman, B.P., Bettencourt, B.R., Celniker, S.E., de Grey, A.D.,
Drysdaile, R.A., Harris, N.L., Richter, J., Russo, S., Schroeder, A.J.,
Shu, S.Q., Stapleton, M., Yamada, C., Ashburner, M., Gelbart, W.M.,
Rubin, G.M. and Lewis, S.E.
Annotation of the Drosophila melanogaster euchromatic genome: a
systematic review
Genome Biol. 3 (12), RESEARCH0083 (2002)
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4 (bases 1 to 297970)
Kaminker, J.S., Bergman, C.M., Kronmiller, B., Carlson, J.,
Svirska, R., Patel, S., Frise, E., Wheeler, D.A., Lewis, S.E.,
Rubin, G.M., Ashburner, M. and Celniker, S.E.
The transposable elements of the Drosophila melanogaster
euchromatin: a genomics perspective
Genome Biol. 3 (12), RESEARCH0084 (2002)
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5 (bases 1 to 297970)
Adams, M.D., Celniker, S.E., Gibbs, R.A., Rubin, G.M. and Venter, C.J.
Direct Submission
Submitted (21-MAR-2000) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
6 (bases 1 to 297970)
FlyBase
Direct Submission
Submitted (10-MAR-2004) FlyBase, Harvard University, Biological
Laboratories, 16 Divinity Avenue, Cambridge, MA 02138, USA
On Sep 13, 2002 this sequence version replaced gi:10728334.
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REFERENCE 1 (bases 1 to 184568)
AUTHORS Birren,B., Linton,L., Nusbaum,C. and Lander,E.
TITLE Homo sapiens chromosome 15, clone RP11-142J21
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 184568)
AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,M.,
Baker,J., Baldwin,J., Barna,N., Beckerly,R., Benn,J., Brown,A.,
Castle,A., Cerny,J., Colangelo,M., Collins,S., Collymore,A.,
Cooke,P., DeArelano,K., Depayre,E., Devon,K., Dewar,K.,
Donelan,L., Doyle,M., Ferreira,P., FitzHugh,W., Forrest,C.,
Funke,K., Gage,D., Galagan,J., Gardyna,S., Gilbert,D., Grant,G.,
Hagos,B., Heaford,A., Horton,L., Howland,J.C., Jones,C., Kann,L.,
Karacas,A., Lehocaky,J., Lieu,C., Locke,K., Macdonald,P.,
Marquis,N., McEwan,P., McGurk,A., McKernan,K., McLaughlin,J.,
Meldrum,J., Molla,M., Morris,W., Morrow,J., Mychaleckyj,J.,
Naylor,J., Niloff,M., O'Connor,T., O'Donnell,P., Pavlin,B.,
Peterson,K., Pollara,V., Riley,R., Roberts,D., Roy,A., Severy,P.,
Stange-Thomann,N., Stojanovic,N., Stone,C., Subramanian,A.,
Tessaye,J., Torruella-Miller,I., Vassiliev,H., Vo,A., Wagner,A.,
Wheeler,J., Wu,X., Wyman,D., Ye,W.J. and Zody,M.
Direct Submission
Submitted (27-AUG-1999) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
REFERENCE 3 (bases 1 to 184568)
AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,S.,
Barna,N., Bastien,V., Boguslavsky,L., Boukhgalter,B., Brown,A.,
Camarata,J., Campopiano,A., Chang,J., Choepel,Y., Colangelo,M.,
Collins,S., Collymore,A., Cooke,P., Dearellano,K., Dewar,K.,
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Grand-Pierre,N., Hagos,B., Heaford,A., Horton,L., Hulme,W.,
Iliev,I., Johnson,R., Jones,C., Karatas,A., LaRocque,K.,
Lamarez,R., Landers,T., Lehoczy,J., Levine,R., Liu,G.,
MacLean,C., Macdonald,P., Marquis,N., Matthews,C., McCarthy,M.,
McEwan,P., McKernan,K., McPheeters,R., Meldrum,J., Meneus,L.,
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Peterson,K., Phunkhang,P., Pierre,N., Pollara,V., Raymond,C.,
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Rosetti,M., Roy,A., Santos,R., Schauer,S., Schupbach,R., Seaman,S.,
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Wilsón,R.K.
TITLE The sequence of Mus musculus clone
AUTHORS Unpublished
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 190414)
AUTHORS Wilsón,R.K.
TITLE Direct Submission
JOURNAL Submitted (29-JUL-2004) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
REFERENCE 3 (bases 1 to 190414)
AUTHORS Wilsón,R.K.
TITLE Direct Submission
JOURNAL Submitted (15-SEP-2004) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
COMMENT On Sep 15, 2004 this sequence version replaced gi:50811813.
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Center: Washington University Genome Sequencing Center
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Contact: submissions@wustl.edu
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

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Scoring table: OLIGO NUC

Gapop_60.0 , Gapext 60.0

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SUMMARIES

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ALIGNMENTS

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; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
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; LOCATION: (1)...(665)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-210235

Query Match      10.7%; Score 19; DB 13; Length 665;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      142 TGTGAATTTCTGAAGGATG 160
        |||||||
Db      347 TGTGAATTTCTGAAGGATG 365

RESULT 2
US-10-027-632-210235
; Sequence 210235, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 210235
; LENGTH: 665
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(665)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-210235

Query Match      10.7%; Score 19; DB 17; Length 665;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      142 TGTGAATTTCTGAAGGATG 160
        |||||||
Db      347 TGTGAATTTCTGAAGGATG 365

RESULT 3
US-10-087-192-997/c
; Sequence 997, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
```

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; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 997
; LENGTH: 143412
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(143412)
; OTHER INFORMATION: n = A,T,C or G
US-10-087-192-997

Query Match      10.7%; Score 19; DB 13; Length 143412;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      127 GCCTTCCAATGCTGTGTG 145
        |||||||
Db      129843 GCCTTCCAATGCTGTGTG 129825

RESULT 4
US-10-721-793-139
; Sequence 139, Application US/10721793
; Publication No. US2005006531A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant immunogens for the Generation of Antivenoms to the
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 139
; LENGTH: 195
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(195)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(195)
US-10-721-793-139

Query Match      10.2%; Score 18; DB 21; Length 195;
Best Local Similarity 100.0%; Pred. No. 6.1;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      111 TTACGGGTATTGCTACGC 128
        |||||||
```

Db 111 TTACGGGTATTGCTACGC 128

RESULT 5

US-10-721-793-143
; Sequence 143, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(195)
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 143
; LENGTH: 195
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(195)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(195)
US-10-721-793-143

Query Match 10.2%; Score 18; DB 21; Length 195;
Best Local Similarity 100.0%; Pred. No. 6.1;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 111 TTACGGGTATTGCTACGC 128

Db 111 TTACGGGTATTGCTACGC 128

RESULT 6

US-10-721-793-147
; Sequence 147, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(195)
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 147
; LENGTH: 195
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(195)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(195)
US-10-721-793-147

Query Match 10.2%; Score 18; DB 21; Length 195;
Best Local Similarity 100.0%; Pred. No. 6.1;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 111 TTACGGGTATTGCTACGC 128

Db 111 TTACGGGTATTGCTACGC 128

RESULT 7

US-10-721-793-167
; Sequence 167, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(195)
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 167
; LENGTH: 195
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(195)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(195)
US-10-721-793-167

Query Match 10.2%; Score 18; DB 21; Length 195;
Best Local Similarity 100.0%; Pred. No. 6.1;

```
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 111 TTACGGGTATTGCTACGC 128
Db 111 TTACGGGTATTGCTACGC 128

RESULT 8
US-10-721-793-171
; Sequence 171, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR FILING DATE: 2002-12-02
; SOFTWARE: PatentIn version 3.1
; NUMBER OF SEQ ID NOS: 294
; SEQ ID NO 171
; LENGTH: 195
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(195)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; TITLE: that recognize Na+-channels
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(195)
; Query Match 10.2%; Score 18; DB 21; Length 195;
; Best Local Similarity 100.0%; Pred. No. 6.1;
; Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 111 TTACGGGTATTGCTACGC 128
Db 111 TTACGGGTATTGCTACGC 128

RESULT 9
US-10-721-793-155
; Sequence 155, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR FILING DATE: 2002-12-02
; SOFTWARE: PatentIn version 3.1
; NUMBER OF SEQ ID NOS: 294
; SEQ ID NO 155
; LENGTH: 198
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(198)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; TITLE: that recognize Na+-channels
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(198)
; Query Match 10.2%; Score 18; DB 21; Length 195;
; Best Local Similarity 100.0%; Pred. No. 6.1;
; Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 111 TTACGGGTATTGCTACGC 128
Db 111 TTACGGGTATTGCTACGC 128

RESULT 10
US-10-721-793-159
; Sequence 159, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR FILING DATE: 2002-12-02
; SOFTWARE: PatentIn version 3.1
; NUMBER OF SEQ ID NOS: 294
; SEQ ID NO 159
; LENGTH: 198
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(198)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; TITLE: that recognize Na+-channels
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(198)
; Query Match 10.2%; Score 18; DB 21; Length 198;
; Best Local Similarity 100.0%; Pred. No. 6.1;
; Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 111 TTACGGGTATTGCTACGC 128
Db 111 TTACGGGTATTGCTACGC 128
```


US-10-721-793-159

Query Match 10.2%; Score 18; DB 21; Length 198;
Best Local Similarity 100.0%; Pred. No. 6.1;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 111 TTACGGGTATTGCTACGC 128
|||
Db 111 TTACGGGTATTGCTACGC 128

RESULT 11

US-10-721-793-163
; Sequence 163, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; TITLE OF INVENTION: Venom of Scorpions of the Genus Centruroides
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 163
; LENGTH: 198
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(198)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(198)

US-10-721-793-163

Query Match 10.2%; Score 18; DB 21; Length 198;
Best Local Similarity 100.0%; Pred. No. 6.1;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 111 TTACGGGTATTGCTACGC 128
|||
Db 111 TTACGGGTATTGCTACGC 128

RESULT 12

US-10-424-599-13962/c
; Sequence 13962; Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B

; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 13962
; LENGTH: 272
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_112616C.1
US-10-424-599-13962

Query Match 10.2%; Score 18; DB 18; Length 272;
Best Local Similarity 100.0%; Pred. No. 6.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 137 GCTGCTGTGAATTTCTGA 154
|||
Db 96 GCTGCTGTGAATTTCTGA 79

RESULT 13

US-10-721-793-153
; Sequence 153, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; TITLE OF INVENTION: Venom of Scorpions of the Genus Centruroides
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 153
; LENGTH: 319
; TYPE: DNA
; ORGANISM: Centruroides sculpturatus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(361)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin precursor
; OTHER INFORMATION: In the mature peptide, the last 2 basic aminoacids are cut
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: (265)..(319)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: (58)..(1)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: (1)..(57)
; OTHER INFORMATION:
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (1)..(261)
US-10-721-793-153

```
Query Match      10.2%; Score 18; DB 21; Length 319;
Best Local Similarity 100.0%; Pred. No. 6.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 111 TTACGGGTATTGCTACGC 128
Db 168 TTACGGGTATTGCTACGC 185

RESULT 14
 US-10-721-793-137
 ; Sequence 137, Application US/10721793
 ; Publication No. US20050065331A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Corona Villegas, Miguel
 ; APPLICANT: Garcia Rodriguez, Ma Consuelo
 ; APPLICANT: Valdez Cruz, Norma Adriana
 ; APPLICANT: Gurrola Briones, Georgina
 ; APPLICANT: Becerra Lujan, Baltazar
 ; APPLICANT: Possani Postay, Lourival Domingos
 ; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
 ; TITLE OF INVENTION: Vencom of Scorpions of the Genus Centruroides
 ; FILE REFERENCE: 2099.0070001
 ; CURRENT APPLICATION NUMBER: US/10/721,793
 ; CURRENT FILING DATE: 2003-11-26
 ; PRIOR APPLICATION NUMBER: US 60/430,067
 ; PRIOR FILING DATE: 2002-12-02
 ; NUMBER OF SEQ ID NOS: 294
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 137
 ; LENGTH: 323
 ; TYPE: DNA
 ; ORGANISM: Centruroides sculpturatus
 ; FEATURE:
 ; NAME/KEY: CD\$
 ; LOCATION: (5)..(265)
 ; OTHER INFORMATION: Product= Sodium-channel modifier toxin precursor
 ; OTHER INFORMATION: In the mature peptide, the last Cys is amidated, and the last Gly
 ; OTHER INFORMATION: and the last 2 basic aminoacids are cut
 ; FEATURE:
 ; NAME/KEY: 3'UTR
 ; LOCATION: (269)..(323)
 ; OTHER INFORMATION:
 ; FEATURE:
 ; NAME/KEY: 5'UTR
 ; LOCATION: (1)..(4)
 ; OTHER INFORMATION:
 ; FEATURE:
 ; NAME/KEY: mat_peptide
 ; LOCATION: (62)..(1)
 ; OTHER INFORMATION: Product= Sodium-channel modifier toxin
 ; FEATURE:
 ; NAME/KEY: sig_peptide
 ; LOCATION: (5)..(61)
 ; OTHER INFORMATION:
 ; PUBLICATION INFORMATION:
 ; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
 ; TITLE: Genes and peptides from the scorpion Centruroides sculpturatus Ewing,
 ; JOURNAL: Toxicon
 ; VOLUME: 39
 ; ISSUE: 12
 ; PAGES: 1893-1898
 ; DATE: 2001-12-01
 ; DATABASE ENTRY DATE:
 ; RELEVANT RESIDUES: (5)..(265)
 ; US-10-721-793-137

Qy 111 TTACGGGTATTGCTACGC 128
Db 172 TTACGGGTATTGCTACGC 189

```

RESULT 15
US-10-721-793-141
; Sequence 141, Application US/10721793
; Publication No. US20050065331A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villegas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; TITLE OF INVENTION: Venom of Scorpions of the Genus Centruroides
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 141
; LENGTH: 323
; TYPE: DNA
; ORGANISM: Centruroides sculpuratus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (5)..(265)
; OTHER INFORMATION: Product= Sodium-channel modifier toxin precursor
; OTHER INFORMATION: In the mature peptide, the last Cys is amidated, and the last Gly
; OTHER INFORMATION: and the last 2 basic aminoacids are cut
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: (62)..( )
; OTHER INFORMATION: Product= Sodium-channel modifier toxin
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: (5)..(61)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: (269)..(323)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(4)
; OTHER INFORMATION:
; PUBLICATION INFORMATION:
; AUTHORS: Corona, M., Valdez-Cruz, N.A., Merino, E., Zurita, M. & Possani L.D.
; TITLE: Genes and peptides from the scorpion Centruroides sculpuratus Ewing,
; TITLE: that recognize Na+-channels
; JOURNAL: Toxicon
; VOLUME: 39
; ISSUE: 12
; PAGES: 1893-1898
; DATE: 2001-12-01
; DATABASE ENTRY DATE:
; RELEVANT RESIDUES: (5)..(265)
US-10-721-793-141

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Qy 111 TTACGGGTATTGCTACGC 128
Db 172 TTACGGGTATTGCTACGC 189

Search completed: August 26, 2005, 21:08:04
Job time : 415.026 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 26, 2005, 20:14:05 ; Search time 2114.25 Seconds
(without alignments)
3186.647 Million cell updates/sec

Title: US-10-617-978-14_COPY_64_240
Perfect score: 177
Sequence: 1 gctgacgtccgggaacta.....atgagaacgtgaaggtctga 177

Scoring table: OLIGO NUC
Gapop 60.0 , Gapext 60.0

Searched: 34239544 seqs, 19032134700 residues

Word size : 0
Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : EST:
1: gb_est1:
2: gb_est2:
3: gb_hic:
4: gb_est3:
5: gb_est4:
6: gb_est5:
7: gb_est6:
8: gb_gsa1:
9: gb_gsa2:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
C 1	22	12.4	435	2	BE950396	UI-M-CE0
C 2	21	11.9	379	7	CK817241	UMC-bov 0
C 3	21	11.9	665	1	AJ814218	AJ814218
C 4	21	11.9	674	6	CB166163	KB603014
C 5	21	11.9	728	7	CK949817	4074871 B
C 6	19	10.7	580	2	AW361823	PM0-CT026
C 7	19	10.7	1101	8	B10170	F14D20-SP6
C 8	18	10.2	263	2	BS586775	BS586775
C 9	18	10.2	313	4	BG603087	EST502177
C 10	18	10.2	360	8	BZ686719	PUBBU54TD
C 11	18	10.2	423	8	AQ405655	HS 5049 B
C 12	18	10.2	466	7	CF794539	890065 MA
C 13	18	10.2	466	8	A2644277	1M0508H11
C 14	18	10.2	477	4	BG603242	EST502332
C 15	18	10.2	483	9	PT003115U	Parameciu
C 16	18	10.2	547	8	BZ675947	PUBGF58TD
C 17	18	10.2	554	5	BP615364	BP615364
C 18	18	10.2	587	9	CC900317	ZMMBB023
C 19	18	10.2	589	8	AQ350422	RPCI11-11
C 20	18	10.2	610	4	BG603086	EST502176
C 21	18	10.2	611	7	CK898930	SGF162516
C 22	18	10.2	621	7	CF793169	886193 MA
C 23	18	10.2	623	6	CB963735	AGENCOURT
C 24	18	10.2	628	4	BJ623886	BJ623886

25	18	10.2	640	8	AZ710307	RPCI-24-1
26	18	10.2	656	2	BF611918	de89h10.y
27	18	10.2	675	5	BX850657	BX850657
28	18	10.2	724	6	CB592178	AGENCOURT
29	18	10.2	732	9	BX130112	Danio fer
30	18	10.2	748	7	CK352152	AGENCOURT
31	18	10.2	752	9	CC923223	t068n21ba
32	18	10.2	755	5	BP678876	BP678876
33	18	10.2	756	6	CB206666	AGENCOURT
34	18	10.2	781	4	BG400860	602464085
35	18	10.2	795	5	BU910572	AGENCOURT
36	18	10.2	806	8	BH360033	CH230-18J
37	18	10.2	806	8	BH360034	CH230-18J
38	18	10.2	819	9	CG791244	ZMMBB028
39	18	10.2	821	9	CC490159	CH240-323
40	18	10.2	822	9	CG043458	PUIGE43TD
41	18	10.2	857	5	BQ736159	AGENCOURT
42	18	10.2	869	6	CB941331	AGENCOURT
43	18	10.2	948	6	CD255176	AGENCOURT
44	18	10.2	1055	4	BM802977	AGENCOURT
45	18	10.2	1084	6	CA974306	CA974306

ALIGNMENTS

RESULT 1
BE950396/c
LOCUS
DEFINITION
UI-M-CE0-ayw-a-10-0-UI.s1 NIH BMAP Ret3 Mus musculus cDNA clone
UI-M-CE0-ayw-a-10-0-UI 3', mRNA sequence.
ACCESSION
BE950396
VERSION
BE950396.1 GI:10589062
KEYWORDS
EST.
SOURCE
Mus musculus (house mouse)
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
1 (bases 1 to 435)
Ronaldo, M.F., Lennon, G. and Soares, M.B.
Normalization and subtraction: two approaches to facilitate gene
discovery
Genome Res. 6 (9), 791-806 (1996)
JOURNAL
97044477
MEDLINE
PUBMED
8889548
COMMENT
Contact: Chin, H
National Institute of Mental Health
6001 Executive Blvd. Room 7N-7190, MSC 9643, Bethesda, MD
20892-9643, USA
Tel: 301 443 1706
Fax: 301 443 9890
Email: mEST@mail.nih.gov
The sequence contained an oligo-dT track that was present in the
oligonucleotide that was used to prime the synthesis of first
strand cDNA and therefore this may represent a bonafide poly A
tail. The sequence tag present in the cDNA between the NotI site
and the oligo-dT track served to verify it as a clone from the
retina tissue cDNA Library Preparation: M.B. Soares Lab Clone
distribution: Researchers may obtain BMAP cDNA clones from RESEARCH
GENETICS. It should be noted that Bento Soares is generating a
small number of additional specialized non-redundant arrays of BMAP
cDNAs whose availability will be considered under appropriate and
limited collaborative arrangements. The tissue for this library was
contributed by Dr. Xin-Yuan Fu, Yale University School of Medicine
The following repetitive elements were found in this cDNA sequence:
1-21, >AT rich low complexity 169-428, >Lx9#LINE/L1
Seq primer: M13 Forward
POLYA=Yes.

FEATURES
source
Location/Qualifiers
1. .435
/organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL/6J"

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/db_xref="taxon:10090"
/clones="UI-M-CE0-ayw-a-10-0-UI"
/dev_stages="6 weeks"
/lab_host="DH10B (Life Technologies)"
/clone_lib="NIH BMAP_Ret3"
/notes="Vector: p7T3D-Pac (Pharmacia) with a modified
polylinker; Site 1: Not I; Site 2: Eco RI; The
NIH_BMAP_Ret3 library is derived from mouse retina tissue.
For a detailed description of the library from which this
clone was derived, please visit our web site at
braineast.eng.uiowa.edu. The tissue for this library was
contributed by Dr. Xin-Yuan Fu, Yale University School of
Medicine
TAG_TISSUE=adult-retina
TAG_LIB=NIH BMAP_Ret3
TAG_SEQ=GTGAGCGCGCAC"

ORIGIN
Query Match      12.4%; Score 22; DB 2; Length 435;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 81 CATTAAAGATCTGTGAGAAACAC 102
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Db 127 CATTAAAGATCTGTGAGAAACAC 106

RESULT 2
CK817241
LOCUS      379 bp      mRNA      linear      EST 01-MAR-2004
DEFINITION UMC-boy_0801-009-fl1 Day 0 Oviduct post-LH surge bov Bos taurus
           CDNA 3'; mRNA sequence.
ACCESSION  CK817241
VERSION    CK817241.1 GI:44834166
KEYWORDS   EST.
SOURCE     Bos taurus (cow)
ORGANISM   Bos taurus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
            Bovinae; Bos.
REFERENCE  1 (bases 1 to 379)
            Prather,R.S., Antoniou,E., Garverick,H.A., Green,J.A., Lucy,M.C.,
            Roberts,R.M., Smith,M.F. and Youngquist,R.S.
            USDA Grant NRI-2002-03476: Bovine ESTs: Focus on Female
            Reproduction
JOURNAL    Unpublished (2002)
COMMENT    Contact: DNA Core Facility (Bovine Project)
            Animal Science - RS Prather
            University of Missouri-Columbia
            M616 Medical Sciences Bldg., Columbia, MO 65212, USA
            Tel: (573)882-0428
            Fax: (573)884-5552
            Email: bovine@rnet.missouri.edu
            POLYA=Yes.

FEATURES             Location/Qualifiers
     source            1..379
                        /organism="Bos taurus"
                        /mol_type="mRNA"
                        /db_xref="taxon:9913"
                        /clone_lib="bov"
     notes=Funding: The production of ESTs submitted in this
     project was funded by USDA Grant NRI-2002-03476 entitled
     'Bovine ESTs: Focus on Female Reproduction' to RS Prather,
     E Antoniou, HA Garverick, JA Green, MC Lucy, RM Roberts,
     MF Smith and RS Youngquist. Genetic Source: Heifers for
     the project were purchased from Circle A Ranch, Iberia, MO
     (http://www.circlearanch.com/home.html). These heifers,
     while not registered have known Angus pedigrees going back
     at least 4 generations. Samples collected: The samples
     consisted of the following: germinal vesicle-stage
     oocytes; in vitro derived embryos (2-cell, morula,
     blastocyst and nuclear transfer blastocyst); in vivo
     blastocysts and conceptuses (days 8, 14, 16 and 18);

```

corpora lutea (days 3, 5, 8, 14, 16, 18 and 35); ovarian follicles (days 0, non-recruited, recruited, early selected and preovulatory); oviduct (days 0, 3 and 5); endometrium (days 5, 8, 14, 16, 18 and 35); and placenta/embryo from day 35 conceptuses. Expanded descriptions of how the tissues were collected can be found at the following URL: <http://genome.rnet.missouri.edu/Bovine/Methods.html>. Library construction (Standard Protocol): All procedures have been described in detail elsewhere (Soares et al., 1994; Bonaldo et al., 1996; Jiang et al., 2001). Total cellular RNA from each sample was isolated by using STAT-60 reagent (Tel-Test, Friendswood, TX) and the poly(A)+ RNA was obtained by two rounds of purification with the Oligotex mRNA isolation kit (Qiagen) according to the manufacturer's instructions. The libraries were constructed by E. Ferguson and R. Woods essentially as described by the manufacturer's instructions provided with the Superscript Plasmid System (Invitrogen, cat. no. 18248-013). Briefly, 1mcg of poly(A)+ RNA was annealed at 63 degrees with 10mcg of NotI-tag-dT18 oligonucleotide (GTGTCGCGCGCG-tag-T18) and reverse transcribed at 37 degrees with Superscript II (Invitrogen) reverse transcriptase (Jiang et al., 2001). The 'tag' represents a tissue/stage-specific ten-base sequence identifier (<http://genome.uiowa.edu/pubsoft/software.html>) present in the oligonucleotide used to prime first-strand synthesis. Second strand synthesis was performed with T4 DNA polymerase in the presence of DNA ligase and RNase H. After second strand synthesis, the double-stranded cDNAs were ligated to SalI adapters (Invitrogen-Life Technologies) and digested with NotI. The cDNAs were size selected by passage through cDNA size fractionation columns (Invitrogen-Life Technologies). The cDNAs derived from each developmental stage of a particular tissue were mixed on an equimolar basis and ligated directionally into the NotI and SalI sites of the pCMV-SPORT6 vector (Invitrogen). After ligation of the inserts, the plasmids were electroporated into DH10B bacteria. Library Construction (PCR Protocol): The amount of mRNA that was recovered from oocytes and embryos was quite limiting and was not sufficient for library production with the standard protocol. Therefore, PCR-based protocol was utilized for producing libraries from sources in which the amount of extracted mRNA was small (oocytes and embryos). Poly-A RNA was isolated by using the MicroPoly(A) Pure kit from Ambion (cat. # 1918). The mRNA was reverse transcribed with a NotI-tag-dT18 oligonucleotide and a SMART oligonucleotide (Clontech) modified to contain a SalI site to generate full-length cDNA with a sequence complementary to the SMART oligonucleotide. Sequences within the SMART and dT oligonucleotides were used as primers to amplify the cDNAs by PCR with pfu turbo polymerase (Stratagene). The resulting PCR products were purified, digested with NotI and SalI and size fractionated by using Chroma Spin-1000 columns (Clontech). Purified cDNA from each PCR reaction was quantitated and mixed on an equimolar basis for ligation into the pCMV-SPORT6 vector. Preliminary Library Characterization: Randomly chosen clones from each library were analyzed by restriction digestion to determine average insert size (96 clones) and by sequencing (~4 96-well plates) to confirm library quality [e.g. the presence of short polyA+ tails, genomic DNA contamination (must be <1%), ribosomal RNA clones (must be <1%), etc.] and to provide a sequence database representing the predominant clones in each library. The clones were sequenced at the University of Missouri-Columbia DNA Core Facility. After production of the library, equal numbers of recombinants from each library were pooled to produce a single mixed library (mega-library) for more extensive sequencing. Bioinformatics work was performed by GK Springer's bioinformatics group (Spollen WG, Topinka CM, Khambati AA)

in Computer Science at the University of Missouri-Columbia. Clone Requests: Requests for clones should be made to the Director of the University of Missouri DNA Core facility at: bovine@net.missouri.edu. Ronaldo MF, Lennon G, Soares MB. Normalization and Subtraction: Two approaches to facilitate gene discovery. Genome Res, 1996; 6:791-806. Jiang H, Bivens NJ, Ries JE, Whitworth KM, Green JA, Forrester LJ, Springer GK, Didion BA, Mathialagan N, Prather RS, Lucy MC (2001) Constructing cDNA libraries with fewer clones that contain long poly(dA) tails. Biotechniques 31:38-42. Soares MB, MF Banaldo, P Jelene, L Su, L Lawton, A Efstratiadis. 1994. Construction and characterization of a normalized cDNA library. Proc Natl Acad Sci, 91:9228-9232. TAG TISSUE=Day 0 Ovicult post-LH surge TAG_SEQ=TGTACCATG

ORIGIN

Query Match 11.9%; Score 21; DB 7; Length 379;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 81 CATTAAAGATCTGTCAGAAACA 101
|||||
Db 343 CATTAAAGATCTGTCAGAAACA 363

RESULT 3

AJ814218/c AJ814218 665 bp mRNA linear EST 13-SEP-2004
LOCUS AJ814218 KN206 Bos sp. cDNA clone C000519812, mRNA sequence.
DEFINITION AJ814218
ACCESSION AJ814218
VERSION AJ814218.1 GI:51881694
KEYWORDS EST.
SOURCE Bos sp.

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
Bovinae; Bos.
1 (bases 1 to 665)
McGuire,K. and Glass,E.J.
Unpublished ESTs, McGuire and Glass
Unpublished (2004)
Contact: McGuire K
Genomics and Genetics
Roslin Institute

REFERENCE

McGuire,K. and Glass,E.J.

Unpublished ESTs, McGuire and Glass

Unpublished (2004)

Contact: McGuire K

Genomics and Genetics

Roslin Institute

Roslin, Midlothian, EH25 9PS, UNITED KINGDOM
Single pass sequencing. Bases called and trimmed with phred v0.020425.c. Vector identified by cross match with the -minscore 20 and -minmatch 12 options. Vector:pBluescriptII(SK+) R. Site 1:EcoRV(lost) R. Site 2:NotI Seq Primer: T7 Normalised library constructed from pooled monocytes from Bos taurus (Holstein) and Bos indicus (Sahiwal) cattle subjected to various stimuli, including infection with the protozoan parasite Theileria annulata.

FEATURES

Location/Qualifiers
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/organism="Bos sp."
/mol_type="mRNA"
/db_xref="taxon:29061"
/clone="C000519812"
/tissue_type="blood"
/cell_type="bovine monocyte"
/clone_lib="KN206"
/note="Vector: pBluescriptII(SK+); Site_1: EcoRV(lost); Site_2: NotI; Normalised library constructed from pooled monocytes from Bos taurus (Holstein) and Bos indicus (Sahiwal) cattle subjected to various stimuli, including infection with the protozoan parasite Theileria annulata"

ORIGIN

Query Match 11.9%; Score 21; DB 1; Length 665;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy

81 CATTAAAGATCTGTCAGAAACA 101
|||||

Db

360 CATTAAAGATCTGTCAGAAACA 340
|||||

RESULT 4

CB166163
LOCUS CB166163 674 bp mRNA linear EST 30-JAN-2003
DEFINITION KX6603014860.R1 CSQFKN32 hypothalamus Bos taurus cDNA, mRNA sequence.

ACCESSION

CB166163

VERSION CB166163.1 GI:28152288

KEYWORDS EST.

SOURCE Bos taurus (cow)

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
Bovinae; Bos.

REFERENCE

1 (bases 1 to 674)

AUTHORS Adelson,D.L. and Gill,C.A.

TITLE Bovine ESTs (Adelson and Gill)

JOURNAL Unpublished (2003)

COMMENT Contact: David L. Adelson

Animal Breeding and Genetics

Texas A&M University

Animal Science Dept., TAMU-2471, College Station, TX 77843-2471, USA

Tel: 9798452616

Fax: 9798456970

Email: david.adelson@tamu.edu.

Location/Qualifiers

1..674

/organism="Bos taurus"

/mol_type="mRNA"

/db_xref="taxon:9913"

/tissue_type="hypothalamus"

/clone_lib="CSEQFN32 hypothalamus"

/note="Organ: hypothalamus; Vector: pBluescript SK+;

Site 1: NotI; Site 2: EcoRI; sequence 5' of the insert

(5'-NNN...NNNinsert)

CGCAATTGGAGTCCACCGGGTGGCGCGCGCTCGAG. Sequence 3' of

the inserts (AAGATTGATATCAAGCTATTCGATACCGTCGACCTCGAG.

normalized Rd 1 library, sequenced 3' with M13R primer."

Query Match 11.9%; Score 21; DB 6; Length 674;

Best Local Similarity 100.0%; Pred. No. 1.6;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 81 CATTAAAGATCTGTCAGAAACA 101

|||||

Db 345 CATTAAAGATCTGTCAGAAACA 365

RESULT 5

CK949817/c CK949817 728 bp mRNA linear EST 15-MAR-2004
LOCUS CK949817 4074871 BARC 10BOV Bos taurus cDNA clone 10BOV26_108 5', mRNA sequence.

ACCESSION

CK949817

VERSION CK949817.1 GI:45464197

KEYWORDS EST.

SOURCE Bos taurus (cow)

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;

Bovinae; Bos.

1 (bases 1 to 728)

Sonstegard, T.S., Van Tassel, C.P., Matukumalli, L.K., Harhay,

G.P., Bosak, S., Rubenfield, M. and Gasbarre, L.C.

Production of EST from cDNA libraries derived from immunologically

activated bovine gut

```

JOURNAL
COMMENT
Unpublished (2004)
Contact: Tad S. Sonstegard
Bovine Functional Genomics Laboratory
Animal and Natural Resources Institute
Bldg 1 200 Rm2A BARC-East, Beltsville, MD 20705, USA
Tel: 3015048416
Fax: 3015048414
Email: tads@anri.barc.usda.gov
Single pass sequencing. Bases called and trimmed with phred
0.000925 using options -trim_alt " -trim_fasta. Vector identified
by cross match using options -minmatch 12 -minscore 12
Plate: 26 row: I column: 08
Seq primer: CCCAGTCACGACGTTGTAACAG
High quality sequence stop: 728.

FEATURES
source
Location/Qualifiers
1..728
/organism="Bos taurus"
/mol_type="mRNA"
/strain="Holstein"
/db_xref="taxon:9913"
/clone="10BOV26_108"
/sex="Male"
/tissue_type="Pooled"
/dev_stage="Multiple"
/lab_host="DH10B T1 phage resistant"
/clone_lib="BARC 1080V"
/notes="Organ: Small intestine; Vector: pagen-1; Site_1:
EcoRI; Site_2: NotI; Equimolar amounts of mRNA extracted
from proximal jejunums of 18 and 21 wk old steers, and
distal ileums of 14 day old calves. proximal jejunum
exposed to C. oncophora for 3 and 6 weeks, and distal
ileum exposed to C. parvum for 7 days"

ORIGIN
Query Match 11.9%; Score 21; DB 7; Length 728;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 81 CATTAAGATCTGTCAGAAACA 101
|||||
Db 499 CATTAAGATCTGTCAGAAACA 479

RESULT 6
AW361823
LOCUS
DEFINITION
PMO-CT0263-021299-006-b02 CT0263 Homo sapiens cDNA, mRNA sequence.
ACCESSION
AW361823
VERSION
AW361823.1 GI:6866473
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (Bases 1 to 580)
HCP http://www.ludwig.org.br/ORESTES.
The FAPESP/LICR Human Cancer Genome Project
JOURNAL
COMMENT
Unpublished (1999)
Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?ti=PMO&t2=PMO-CT0263-
021299-006-b02&t3=1999-12-02&t4=1)
Seq primer: puc 18 forward
High quality sequence start: 3
High quality sequence stop: 148.

JOURNAL
COMMENT
Unpublished (2004)
Contact: Tad S. Sonstegard
Bovine Functional Genomics Laboratory
Animal and Natural Resources Institute
Bldg 1 200 Rm2A BARC-East, Beltsville, MD 20705, USA
Tel: 3015048416
Fax: 3015048414
Email: tads@anri.barc.usda.gov
Single pass sequencing. Bases called and trimmed with phred
0.000925 using options -trim_alt " -trim_fasta. Vector identified
by cross match using options -minmatch 12 -minscore 12
Plate: 26 row: I column: 08
Seq primer: CCCAGTCACGACGTTGTAACAG
High quality sequence stop: 728.

FEATURES
source
Location/Qualifiers
1..580
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="CT0263"
/notes="Organ: colon; Vector: puc18; Site_1: SmaI; Site_2:
SmaI; A mini-library was made by cloning products derived
from ORESTES PCR (U.S. Letters Patent application No.
196,716 - Ludwig Institute for Cancer Research) profiles
into the pUC 18 vector. Reverse transcription of tissue
mRNA and cDNA amplification were performed under low
stringency conditions."

ORIGIN
Query Match 10.7%; Score 19; DB 2; Length 580;
Best Local Similarity 100.0%; Pred. No. 21;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 129 CTTCCAATGCTGCTGTCAA 147
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Db 98 CTTCCAATGCTGCTGTCAA 116

RESULT 7
B10170
LOCUS
DEFINITION
F14D20-Sp6 IGF Arabidopsis thaliana genomic clone F14D20, genomic
survey sequence.
ACCESSION
B10170
VERSION
B10170.1 GI:2091289
KEYWORDS
GSS.
ORGANISM
Arabidopsis thaliana (thale cress)
Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsids.
1 (Bases 1 to 1101)
PENG,J., Dewar,K., Buehler,E., Kim,C., Li,Y., Shinn,P., Sun,H. and
Ecker,J.
BAC End Sequences at ATGC
Unpublished (1997)
Other_GSSs: F14D20-T7
Contact: Ecker J.
Arabidopsis Thaliana Genome Center
University of Pennsylvania
Dept. of Biology, University of Pennsylvania, Philadelphia, PA
19104
Tel: 215-898-9384
Fax: 215-898-8780
Email: jecker@atgenome.bio.upenn.edu
Seq primer: Sp6
Class: BAC ends
High quality sequence start: 121
High quality sequence stop: 802.

FEATURES
source
Location/Qualifiers
1..1101
/organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
/scotye="Columbia"
/db_xref="taxon:3702"
/clone="F14D20"
/sex="hermaphrodite"
/clone_lib="IGF"
/notes="Vector: BelOBAcII; Site_1: EcoRI; Site_2: EcoRI;
Produced by Thomas Altmann"

ORIGIN
Query Match 10.7%; Score 19; DB 8; Length 1101;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```


QY 146 AATTCTGAAGATGAGAA 164
 Db ||||||||||||||||
 405 AATTCTGAAGATGAGAA 423

RESULT 8
 BS586775 263 bp mRNA linear EST 30-NOV-2000
 LOCUS Mus musculus CDNA clone 9570005A14 5', mRNA sequence.
 DEFINITION

ACCESSION BS586775
 VERSION
 KEYWORDS
 SOURCE EST.
 ORGANISM Mus musculus (house mouse)

REFERENCE 1 (bases 1 to 263)
 AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

Alizawa,K., Akahira,S., Akimura,T., Arai,A., Arakawa,T.,
 Carninci,P., Hanagaki,T., Hayatsu,N., Hiraoka,T., Hirozane,T.,
 Hodojima,Y., Imotani,K., Ishii,Y., Itoh,M., Izawa,M., Kawai,J.,
 Kojima,Y., Konno,K., Kuakabe,M., Matsuyama,T., Miyazaki,A.,
 Nakamura,M., Nishi,K., Nomura,K., Numazaki,K., Okazaki,Y.,
 Okubo,T., Owa,C., Sakai,C., Sakai,K., Sasaki,D., Sato,K.,
 Shibata,K., Shibata,Y., Shinagawa,A., Shiraki,T., Sogabe,Y.,
 Suzuki,H., Tagawa,A., Takahashi,F., Tanaka,T., Toya,T.,
 Watahiki,A., Yamamura,T., Yasunishi,A., Yoshida,K., Yoshiki,A.,
 Muramatsu,M. and Hayashizaki,Y.

RIKEN Mouse ESTs (Alizawa,K. et al. 2000)
 UNPUBLISHED (2000)
 CONTACT: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center (GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216

Email: genome-res@gsc.riken.jp, URL: http://genome.gsc.riken.jp/
 Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoaka,S.,
 Sasaki,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
 Thermotabilization and thermoactivation of thermolabile enzymes by
 trehalose and its application for the synthesis of full length
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
 Itoh,M., Kitsuai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J.,
 Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M.,
 Okazaki,Y. and Hayashizaki,Y.
 Automated filtration-based high-throughput plasmid preparation
 system. Genome Res. 9 (5), 463-470 (1999)
 Carninci,P. and Hayashizaki,Y.
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
 19-44 (1999)

Please visit our web site (http://genome.rtc.riken.go.jp) for
 further details.

FEATURES
 source

Location/Qualifiers
 1..263
 /organism="Mus musculus"
 /mol_type="mRNA"
 /db_xref="taxon:10090"
 /clone="9570005A14"
 /sex="male"
 /tissue_type="urinary bladder"
 /dev_stage="adult"
 /lab_host="DH10B"
 /clone_lib="RIKEN full-length enriched, adult male urinary
 bladder"

/note="Site 1: Sali; Site 2: BamHI; cDNA library was
 prepared and sequenced in Mouse Genome Encyclopedia
 Project of Genome Exploration Research Group in Riken
 Genomic Sciences Center and Genome Science Laboratory in
 RIKEN. Division of Experimental Animal Research in Riken
 contributed to prepare mouse tissues. 1st strand cDNA was
 primed with a primer [5'
 GAGAGAGAGAGGATCCAGAGCTCTTTTITTTTTTITVN 3'], cDNA was

prepared by using trehalose thermo-activated reverse
 transcriptase and subsequently enriched for full-length by
 cap-trapper. cDNA went through one round of normalization
 to Rot = 20.0 and subtraction to Rot = 370.0. Second
 strand cDNA was prepared with the primer adapter of
 sequence [5' GAGAGAGATTCGAGTTAATTAATATCCCCCCCCCCC
 3']. cDNA was cleaved with XhoI and BamHI. Vector: a
 modified pBluescript KS(+) after bulk excision from
 Lambda FLC I."

ORIGIN

Query Match 10.2%; Score 18; DB 2; Length 263;
 Best Local Similarity 100.0%; Pred. No. 76;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 TGTGAATTTCTGAAGGAT 159
 ||||||||||||||||

Db 168 TGTGAATTTCTGAAGGAT 185

RESULT 9

LOCUS BG603087/c 313 bp mRNA linear EST 14-AUG-2001
 DEFINITION EST502177 Plasmodium yoelii sporozoite cDNA Plasmodium yoelii cDNA
 clone PYCDN74, mRNA sequence.

ACCESSION BG603087

KEYWORDS BG603087.1 GI:15153101

EST.

SOURCE Plasmodium yoelii

ORGANISM Plasmodium yoelii

REFERENCE 1 (bases 1 to 313)

AUTHORS Kappe,S.H.I., Gardner,M.J., Brown,S.M., Ross,J., Matuschewski,K.,
 Ribeiro,J.M., Adams,J.H., Quackenbush,J., Cho,J., Carucci,D.J.,
 Hoffman,S.L. and Nussenzweig,V.

TITLE Exploring the transcriptome of the malaria sporozoite stage

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 98 (17), 9895-9900 (2001)

MEDLINE 21396555

PUBMED 11493695

COMMENT Contact: Malcolm J. Gardner

Department of Eukaryotic Genomics.

The Institute for Genomic Research

9712 Medical Center Drive, Rockville, MD 20850, USA

Tel: 301 838 3519

Fax: 301 838 0208

Email: gardner@tigr.org

Request for clones, please contact: Stefan Kappe,

kappe01@popmail.med.nyu.edu Michael Heidelberg Division,

Department of Pathology New York University School of Medicine.

Location/Qualifiers

source

1..313

/organism="Plasmodium yoelii"

/mol_type="mRNA"

/strain="17XNL"

/db_xref="taxon:5861"

/clone="PYCDN74"

/dev_stage="sporozoites from salivary gland"

/lab_host="E. coli TOP10"

/clone_lib="Plasmodium yoelii sporozoite cDNA"

/note="Vector: pCR4; TA cloning; Plasmodium yoelii

sporozoite cDNA library from salivary gland sporozoites 14

days post-infection"

ORIGIN

Query Match 10.2%; Score 18; DB 4; Length 313;

Best Local Similarity 100.0%; Pred. No. 77;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 134 AATCTGCTGTGAATTC 151
 ||||||||||||||||

Db 218 AATCTGCTGTGAATTC 201

```

RESULT 10
LOCUS      BZ686719/c
DEFINITION PUBBU54TD ZM_0.6_1.0_KB Zea mays genomic clone ZMMBTa019J11,
            genomic survey sequence.
ACCESSION  BZ686719
VERSION     BZ686719.1 GI:28247227
KEYWORDS    GSS.
SOURCE      Zea mays
ORGANISM    Zea mays
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
            clade; Panicoideae; Andropogoneae; Zea.
REFERENCE   1 (bases 1 to 360)
AUTHORS     Whitelaw,C.A., Quackenbush,J., Van Aken,S., Uterback,T.,
            Resnick,A., Frazer,C.M., Yuan,Y., San Miguel,P., Ma,J. and
            Bennetzen,J.
            Maize Genomics Consortium
            Unpublished (2003)
            Contact: Cathy Whitelaw
TITLE       TIGR
JOURNAL      9712 Medical Center Drive, Rockville, MD 20850, USA
COMMENT      Tel: 301-838-5843
            Fax: 301-838-0208
            Email: whitelaw@tigr.org
            Seq primer: TF
            Class: sheared ends.
FEATURES             source
            Location/Qualifiers
                1..360
                /organism="Zea mays"
                /mol_type="genomic DNA"
                /strain="B73"
                /db_xref="taxon:4577"
                /clone="ZMMBTa019J11"
                /clone_lib="ZM 0.6_1.0_KB"
                /notes="Vector: PCR4-TOPO; Site 1: EcoRI; 0.6-1.0 kb high
                Cot selected genomic DNA library"
ORIGIN
Query Match      10.2%; Score 18; DB 8; Length 360;
Best Local Similarity 100.0%; Pred. No. 77;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy  84  TAGATCTGTCAGAAACA 101
      |||||
Db   57  TAGATCTGTCAGAAACA 40

RESULT 11
LOCUS      AQ405655/c
DEFINITION HS_5049_B1 G07_SP6E RPCI-11 Human Male BAC Library Homo sapiens
            genomic clone Plate=625 Col=13 Row=N, genomic survey sequence.
ACCESSION  AQ405655
VERSION     AQ405655.1 GI:4415643
KEYWORDS    GSS.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 423)
AUTHORS     Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T.,
            Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and
            Hood,L.
            Sequence-tagged connectors: A sequence approach to mapping and
            scanning the human genome
            Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)
JOURNAL      9380589
MEDLINE      10449764
PUBMED
Contact: Mahairas GG, Wallace JC, Hood L
High Throughput Sequencing Center
University of Washington
401 Queen Anne Avenue North, Seattle, WA 98109, USA

Tel: (206) 616-3618
Fax: (206) 616-3887
Email: jwallace@u.washington.edu
Clones are derived from the human BAC library RPCI-11. For BAC
library availability, please contact Pieter de Jong
(pieter@dejong.med.buffalo.edu). Clones may be purchased from
BACPAC Resources (http://bacpac.med.buffalo.edu/ordering_bac.htm)
or from Research Genetics (info@resgen.com). BAC end Web Server:
http://www.htsc.washington.edu
Plate: 625 row: N column: 13
Seq primer: SP6
Class: BAC ends
High quality sequence stop: 423.
FEATURES             source
            Location/Qualifiers
                1..423
                /organism="Homo sapiens"
                /mol_type="genomic DNA"
                /db_xref="taxon:9606"
                /clone="Plate=625 Col=13 Row=N"
                /sex="male"
                /clone_lib="RPCI-11 Human Male BAC Library"
                /notes="Vector: pBACe3.6; Site 1: EcoRI; Site 2: EcoRI;
                Male blood DNA was isolated from one randomly chosen donor
                and partially digested with a combination of EcoRI and
                EcoRI Methyase. Size selected DNA was cloned into the
                pBACe3.6 vector at EcoRI sites"
ORIGIN
Query Match      10.2%; Score 18; DB 8; Length 423;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy  141 GTGTGAATTTCTGAAGGA 158
      |||||
Db   260 GTGTGAATTTCTGAAGGA 243

RESULT 12
LOCUS      CF794539
DEFINITION 890065 MARC 4PIG Sus scrofa cDNA 5', mRNA sequence.
ACCESSION  CF794539
VERSION     CF794539.1 GI:37799112
KEYWORDS    EST.
SOURCE      Sus scrofa (pig)
ORGANISM    Sus scrofa
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
REFERENCE   1 (bases 1 to 466)
AUTHORS     Smith,T.P.L., Preking,B.A., Ford,J.J., Vallet,J.L., Wise,T.A.,
            Nonneman,D.J., Wray,J.E. and Keele,J.W.
            Porcine EST collection using a normalized library constructed from
            embryos representing early developmental stages
            Unpublished (2003)
            Contact: Smith TPL
            USDA, ARS, US Meat Animal Research Center
            PO Box 166, Clay Center, NE 68933-0166, USA
            Tel: 402 762 4366
            Fax: 402 762 4390
            Email: smith@email.marc.usda.gov
            Single pass sequencing. Bases called with phred v0.020425.c and
            trimmed with the aid of the trim_alt option. Vector identified with
            cross_match v0.990329.
            Plate: TMW8014 row: E column: 12
            Seq primer: GTAATACGACTCACTATAGG.
FEATURES             source
            Location/Qualifiers
                1..466
                /organism="Sus scrofa"
                /mol_type="mRNA"
                /db_xref="taxon:9823"
                /tissue_type="pooled"
                /lab_host="DH10B"
                /clone_lib="MARC 4PIG"

```

/note="Vector: pCDNA3.1; Site 1: EcoRI; Site 2: NotI;
Library made with combined RNA from day-10, day-13,
day-15, day-25, and day-30 whole embryos."

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ORIGIN
Query Match      10.2%; Score 18; DB 7; Length 466;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 145 GAATTTCTGAAGGATGAG 162
|||||
DB 108 GAATTTCTGAAGGATGAG 125

RESULT 13
LOCUS AZ644277 466 bp DNA linear GSS 14-DEC-2000
DEFINITION IM508H1F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0508H1 F, genomic survey sequence.
ACCESSION AZ644277
VERSION AZ644277.1 GI:11772649
KEYWORDS GSS,
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE 1 (bases 1 to 466)
AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausern, A. and Wright, D., Weiss, R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0508 row: H column: 11
Seq primer: CGTGTGAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 466.
Location/Qualifiers
1..466
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0508H1"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to

```

```

ORIGIN
Query Match      10.2%; Score 18; DB 8; Length 466;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 TGTCGAATTTCTGAAGGAT 159
|||||
DB 102 TGTCGAATTTCTGAAGGAT 119

RESULT 14
LOCUS BG603242/c 477 bp mRNA linear EST 14-AUG-2001
DEFINITION EST502332 Plasmodium yoelii sporozoite cDNA Plasmodium yoelii cDNA
clone PYCDP45, mRNA sequence.
ACCESSION BG603242
VERSION BG603242.1 GI:15153256
KEYWORDS EST,
SOURCE Plasmodium yoelii
ORGANISM Plasmodium yoelii
REFERENCE 1 (bases 1 to 477)
AUTHORS Kappe, S.H.I., Gardner, M.J., Brown, S.M., Ross, J., Matuschewski, K.,
Ribeiro, J.M., Adams, J.H., Quackenbush, J., Cho, J., Carucci, D.J.,
Hoffman, S.L. and Nussenzweig, V.
TITLE Exploring the transcriptome of the malaria sporozoite stage
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 98 (17), 9895-9900 (2001)
MEDLINE 21396555
PUBMED 11493695
COMMENT Contact: Malcolm J. Gardner
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Drive, Rockville, MD 20850, USA
Tel: 301 838 3519
Fax: 301 838 0208
Email: gardner@tigr.org
Request for clones, please contact: Stefan Kappe,
kappes01@popmail.med.nyu.edu Michael Heidelberger Division,
Department of Pathology New York University School of Medicine.
Location/Qualifiers
1..477
/organism="Plasmodium yoelii"
/mol_type="mRNA"
/strain="17XNL"
/db_xref="taxon:5861"
/clone="PYCDP45"
/dev_stage="sporozoites from salivary gland"
/lab_host="E. coli TOP10"
/clone_lib="Plasmodium yoelii sporozoite cDNA"
/note="Vector: pCR4; TA cloning; Plasmodium yoelii
sporozoite cDNA library from salivary gland sporozoites 14
days post-infection"

FEATURES
source
1..477
/organism="Plasmodium yoelii"
/mol_type="mRNA"
/strain="17XNL"
/db_xref="taxon:5861"
/clone="PYCDP45"
/dev_stage="sporozoites from salivary gland"
/lab_host="E. coli TOP10"
/clone_lib="Plasmodium yoelii sporozoite cDNA"
/note="Vector: pCR4; TA cloning; Plasmodium yoelii
sporozoite cDNA library from salivary gland sporozoites 14
days post-infection"

ORIGIN
Query Match      10.2%; Score 18; DB 4; Length 477;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 134 AATCGTGTGTGAATTC 151
|||||
DB 221 AATCGTGTGTGAATTC 204

RESULT 15
LOCUS PT003115U/c 483 bp DNA linear GSS 29-MAY-2003
DEFINITION Paramesicium tetraurelia sequence M03E08u of the end of plasmid
PT003115, genomic survey sequence.
ACCESSION AL446451

```

adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

```

VERSION      AL446451.1  GI:11121726
KEYWORDS     GSS.
SOURCE       Paramacium tetraurelia
ORGANISM     Paramacium tetraurelia
              Eukaryota; Alveolata; Ciliophora; Oligohymenophorea; Peniculida;
              Paramacium.
REFERENCE    1
AUTHORS      Keller,A.M. and Cohen,J.
TITLE        An indexed genomic library for Paramacium complementation cloning
JOURNAL      J. Eukaryot. Microbiol. 47 (1), 1-6 (2000)
MEDLINE      20114709
PUBMED       10651287
REFERENCE    2
AUTHORS      Dessen,P., Zagulski,M., Gromadka,R., Plattner,H., Kissmehl,R.,
              Meyer,E., Bernier,M., Schultz,J.E., Linder,J.U., Pearlman,R.E.,
              Kung,C., Forney,J., Satir,B.H., Van Houten,J.L., Keller,A.M.,
              Froissard,M., Sperling,L. and Cohen,J.
TITLE        Paramacium genome survey: a pilot project
JOURNAL      Trends Genet. 17 (6), 306-308 (2001)
MEDLINE      21273563
PUBMED       11377780
REFERENCE    3
AUTHORS      Gromadka,R. and Zagulski,M.
TITLE        Random sequencing of the Paramacium macronuclear genome
JOURNAL      Unpublished
REMARK       Institute of Biochemistry and Biophysics, Polish Academy of
              Sciences, Warsaw, Poland
REFERENCE    4
AUTHORS      Cohen,J. and Sperling,L.
TITLE        Direct Submission
JOURNAL      Submitted (01-NOV-2000) Paramacium Genome Survey Project, Centre de
              Genetique Moleculaire, Centre National de la Recherche
              Scientifique, 91198 Gif-sur-Yvette, France. E-mail:
              sperling@cgm.cnrs-gif.fr
COMMENT      The present survey of the Paramacium tetraurelia macronuclear
              genome consists of end sequences of a library of random 4-12 kb
              fragments obtained by Sau3A partial digestion of macronuclear DNA
              cloned in the BamHI site of pBSIIKS-. See [4].
              Genes are predicted from matches to other sequences. For more
              information about this sequence or the Paramacium Project, see
              http://paramacium.cgm.cnrs-gif.fr.
FEATURES     source
              1..483
              Location/Qualifiers
                organism="Paramacium tetraurelia"
                macronuclear
                mol_type="genomic DNA"
                strain="stock d4-2"
                db_xref="taxon:5888"
ORIGIN
Query Match      10.2%; Score 18; DB 9; Length 483;
Best Local Similarity 100.0%; Pred.No. 79;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      146 AATTTCGAGGATGAGA 163
        |||||||
DB      418 AATTTCGAGGATGAGA 401

```

Search completed! August 26, 2005, 23:31:23
 Job time : 2114.25 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 26, 2005, 18:43:08 ; Search time 324.757 Seconds
(without alignments)
3226.399 Million cell updates/sec

Title: US-10-617-978-14_COPY_64_240

Perfect score: 177

Sequence: 1 gctgacgtccgcgaaacta.....atgagaacgtgaaggtctga 177

Scoring table: OLIGO NUC

Gapop 60.0 , Gapext 60.0

Searched: 4390206 seqs, 2959870667 residues

Word size : 0

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : N_Geneseq_16Dec04.*

- 1: Geneseqn1980s.*
- 2: Geneseqn1990s.*
- 3: Geneseqn2000s.*
- 4: Geneseqn2001as.*
- 5: Geneseqn2001bs.*
- 6: Geneseqn2002as.*
- 7: Geneseqn2002bs.*
- 8: Geneseqn2003as.*
- 9: Geneseqn2003bs.*
- 10: Geneseqn2003cs.*
- 11: Geneseqn2003ds.*
- 12: Geneseqn2004as.*
- 13: Geneseqn2004bs.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	19	10.7	143412	11 ACN44512	Acn44512 Mouse gen
2	18	10.2	2365	13 ADQ85216	Adq85216 Human tum
3	18	10.2	3408	10 ADH73022	Adh73022 Human MEG
C 4	18	10.2	3408	10 ADH73024	Adh73024 Human MEG
5	18	10.2	3909	10 ADI60469	Adi60469 Secreted
6	18	10.2	4790	5 AAS45254	Aas45254 cDNA enco
7	18	10.2	5587	6 ADH48775	Adh48775 NOV25 cod
8	18	10.2	5715	10 ADH73025	Adh73025 Human MEG
9	18	10.2	6846	12 ADN04593	Adn04593 Ant-ipsori
10	18	10.2	6846	12 ADQ20312	Adq20312 Human sof
11	18	10.2	7037	5 AAS45066	Aas45066 cDNA enco
12	18	10.2	7132	8 ABX63780	Abx63780 Human cDN
13	18	10.2	7973	10 ADD93418	Add93418 Human lip
14	18	10.2	7974	8 ADA47370	Ada47370 Human Lp2
C 15	17	9.6	396	4 AAF94502	Aaf94502 Human ova
C 16	17	9.6	396	6 ABL48852	Abi48852 Ovarian c
C 17	17	9.6	396	6 ABR703169	Abt03169 Human ova
C 18	17	9.6	396	11 ADM10762	Adm10762 Human ova
C 19	17	9.6	396	12 ADJ11092	Adj11092 Represent
C 20	17	9.6	396	12 ADM43353	Adm43353 Human ova

21	17	9.6	468	10 AAD62548	Aad62548 Human T1R
C 22	17	9.6	758	6 ABS77229	Abse77229 Frog embr
C 23	17	9.6	812	3 AAZ89353	Aaz89353 Human 18.
C 24	17	9.6	1014	5 AAH67435	Aah67435 C glutami
C 25	17	9.6	1083	4 AAF71267	Aaf71267 Corynebac
26	17	9.6	1350	8 ACA01824	Aca01824 C. glutam
27	17	9.6	1353	5 AAH65015	Aah65015 C glutami
C 28	17	9.6	1784	10 ADI02464	Adi02464 Human cDN
C 29	17	9.6	2500	4 AAK94785	Aak94785 Human ful
C 30	17	9.6	2500	12 ADL31859	Adl31859 Full leng
C 31	17	9.6	2667	4 ABA06424	Abao6424 Human cDN
C 32	17	9.6	2667	6 ABV83761	Abv83761 Human pol
C 33	17	9.6	2690	4 AAS28803	Aas28803 Human imm
C 34	17	9.6	2690	10 ADB31528	Adb31528 Human cDN
C 35	17	9.6	3024	12 ADQ67269	Adq67269 Novel hum
C 36	17	9.6	3598	2 AAX37725	Aax37725 Human PRO
C 37	17	9.6	3662	2 AAX52264	Aax52264 Protein P
C 38	17	9.6	3662	3 AAZ52206	Aaz52206 Human PRO
C 39	17	9.6	3662	3 ADC78601	Adc78601 Human PRO
C 40	17	9.6	3662	4 AAF72422	Aaf72422 Human PRO
C 41	17	9.6	3662	4 AAS00161	Aas00161 Human cDN
C 42	17	9.6	3662	8 ACA60239	Aca60239 Human cDN
C 43	17	9.6	3662	8 ACD07639	Acd07639 Novel hum
C 44	17	9.6	3662	8 ABX71687	Abx71687 Human cDN
C 45	17	9.6	3662	8 ACH07019	Ach07019 Human sec

ALIGNMENTS

RESULT 1
ACN44512/c
ID ACN44512 standard; DNA; 143412 BP.

XX AC ACN44512;

DT 18-NOV-2004 (first entry)

XX DB Mouse genomic sequence mCG20543.

XX KW Cytostatic; carcinoma; lymphoma; cancer; murine; gene; ss.

XX OS Mus musculus.

XX PN WO2003073926-A2.

XX PD 12-SEP-2003.

XX PF 28-FEB-2003; 2003WO-US006235.

XX PR 01-MAR-2002; 2002US-00087192.

XX PA (SAGR-) SAGRES DISCOVERY.

XX PI Morris DW;

XX DR WPI; 2003-328604/31.

XX PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma comprises a nucleotide sequence.

XX PS Claim 1; SEQ ID NO 997; Opp; English.

CC CC The present invention relates to novel DNA and protein sequences which are associated with carcinomas. The sequences are useful for: (i) for screening drug candidates; (ii) for screening of bioactive agent capable of binding to Carcinoma Associated Protein (CAP); (iii) for screening of a bioactive agent capable of modulating the activity of CAP; (iv) for evaluating the effect of a candidate carcinoma drug; (v) for diagnosing carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip; (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for determining Carcinoma Associated (CA) gene copy number. In addition, the

CC CA genes are useful as DNA vaccines and the CAP are useful as markers of
 CC carcinoma including lymphoma. The present sequence is one such CA coding
 CC sequence. Note: This patent is an equivalent to basic patent
 CC US2002182586A1, for which no sequence data was published
 XX

SQ Sequence 143412 BP; 33078 A; 32311 C; 33212 G; 34277 T; 0 U; 10534 Other;

Query Match 10.7%; Score 19; DB 11; Length 143412;
 Best Local Similarity 100.0%; Pred. No. 3.5;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 127 GCCTTCCAATGCTGGTGTG 145

Db 129843 GCCTTCCAATGCTGGTGTG 129825

RESULT 2

ADQ85216
 ID ADQ85216 standard; cDNA; 2365 BP.

AC ADQ85216;

XX 07-OCT-2004 (first entry)

XX Human tumour-associated antigenic target (TAT) cDNA sequence #2030.

XX human; tumour-associated antigenic target; TAT; cytostatic; gene therapy;
 KW cancer; cell proliferative disorder; gene; ss.

XX Homo sapiens.

XX WO2004060270-A2.

XX 22-JUL-2004.

XX 15-OCT-2003; 2003WO-US029126.

XX 18-OCT-2002; 2002US-0418988P.

XX (GETH) GENENTECH INC.

PA (WUTD/) WU T D.

PA (ZHOU/) ZHOU Y.

PI Wu TD, Zhou Y;

XX WPI; 2004-534300/51.

XX New nucleic acid molecule and encoded polypeptide, for diagnosing,
 PT preventing or treating cell proliferative disorders such as cancer.

XX Claim 1; SEQ ID NO 2030; 5504pp; English.

XX The present invention describes an isolated tumour-associated antigenic
 CC target (TAT) nucleic acid comprising: (a) any of 4622 nucleotide
 CC sequences (see SEQ ID NO:1 to 4622); (b) the full-length coding region of
 CC (a); (c) the complement of (a) or (b); (d) a sequence that has 80%
 CC sequence identity to (a)-(c); or (e) a sequence that hybridises to (a)-
 CC (c). Also described: (1) an expression vector comprising the above
 CC nucleic acid; (2) a host cell comprising the above expression vector; (3)
 CC a process for producing a polypeptide; (4) an isolated polypeptide
 CC comprising: (a) an amino acid sequence encoded by any of the above
 CC nucleotide sequences; (b) an amino acid sequence encoded by the full-
 CC length coding region of the above nucleotide sequences; or (c) a sequence
 CC having at least 80% identical to (a) or (b); (5) a chimeric polypeptide
 CC comprising the above polypeptide fused to a heterologous polypeptide; (6)
 CC an isolated antibody that binds to the above polypeptide; (7) a process
 CC for producing the antibody; (8) an isolated oligopeptide that binds to
 CC the above polypeptide; (9) a tumour-associated antigenic target (TAT)
 CC binding organic molecule that binds to the above polypeptide; (10) a
 CC composition of matter comprising the above (chimeric) polypeptide,
 CC antibody, oligopeptide or TAT binding organic molecule, in combination
 CC with a carrier; (11) an article of manufacture comprising a container and
 CC the composition of matter contained within the container; (12) methods of

CC inhibiting the growth of a cell that expresses the above protein, where
 CC the growth of the cell is at least in part dependent upon a growth
 CC potentiating effect of the above protein; (13) a method of
 CC therapeutically treating a mammal having a cancerous tumour comprising
 CC cells that express the above protein; (14) a method of determining the
 CC presence of a protein in a sample suspected of containing the protein
 CC described above; (15) methods of diagnosing the presence of a tumour in a
 CC mammal; (16) a method for treating or preventing a cell proliferative
 CC disorder associated with increased expression or activity of the above
 CC protein; and (17) a method of binding an antibody, oligopeptide or
 CC organic molecule to a cell that expresses the protein described above.
 CC The TAT sequences have cytostatic activities, and can be used in gene
 CC therapy. The composition and methods are useful for diagnosing,
 CC preventing or treating cancer. The composition is also used for preparing
 CC a medicament for the therapeutic treatment or diagnostic detection of a
 CC cell proliferative disorder or cancer. The present sequence represents a
 CC human TAT cDNA sequence from the present invention.

SQ Sequence 2365 BP; 554 A; 656 C; 684 G; 471 T; 0 U; 0 Other;

Query Match 10.2%; Score 18; DB 13; Length 2365;
 Best Local Similarity 100.0%; Pred. No. 13;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 130 TTCCAATGCTGGTGTGAA 147

Db 367 TTCCAATGCTGGTGTGAA 384

RESULT 3

ADH73022

ID ADH73022 standard; cDNA; 3408 BP.

XX ADH73022;

XX 25-MAR-2004 (first entry)

XX Human MEGF7-related cDNA sequence SeqID1.

XX MEGF7; epidermal growth factor-like domain; low density lipoprotein;
 KW LDL receptor-like protein; gene therapy; protein therapy;
 KW MEGF7 expression; gene; ss; human.

XX Homo sapiens.

XX Key Location/Qualifiers

FT CDS 1..3408

FT /*tag= a

FT /product= "Human MEGF7-related protein SeqID2"

FT /partial

FT /note= "No stop codon"

XX GB2381790-A.

XX PN 14-MAY-2003.

XX 26-SEP-2002; 2002GB-00022372.

XX 26-SEP-2001; 2001GB-00023124.

XX 26-JUN-2002; 2002GB-00014703.

XX (GLAX) GLAXO GROUP LTD.

XX Volpe F;

XX WPI; 2003-432835/41.

XX P-PSDB; ADH73023.

XX Novel isolated human MEGF7 polypeptide, a polypeptide having multiple

XX epidermal growth factor-like domains, useful in diagnostic assays for

XX detecting diseases associated with inappropriate MEGF7 activity or

XX levels.

PS Disclosure; SEQ ID NO 1; 47pp; English.

XX This invention relates to a novel human MEGF7 polypeptide (a polypeptide
 CC having multiple epidermal growth factor-like domains, including an
 CC unidentified low density lipoprotein (LDL) receptor-like protein). The
 CC sequences of the invention may be useful for gene therapy or protein
 CC therapy or for the modulation of MEGF7 expression and activity. The
 CC invention may be useful for the development of methods to diagnose or
 CC treat diseases associated with inappropriate MEGF7 activity or levels.
 CC The polypeptides and polynucleotides are also useful for configuring
 CC screening methods for detecting the effect of added compounds on the
 CC production of mRNA and polypeptide in cells. The polynucleotides are also
 CC useful as diagnostic reagents, through detecting mutations in the
 CC associated gene. The polynucleotide sequence is useful for chromosome
 CC localisation studies and tissue expression studies. The present sequence
 CC is that of a cDNA sequence which is related to the invention.

XX Sequence 3408 BP; 752 A; 943 C; 1028 G; 685 T; 0 U; 0 Other;

Query Match 10.2%; Score 18; DB 10; Length 3408;
 Best Local Similarity 100.0%; Pred. No. 13;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 130 TTCCAATGCTGGTGTGAA 147
 |||||

DB 1411 TTCCAATGCTGGTGTGAA 1428
 |||||

RESULT 4

ADH73024/c

ID ADH73024 standard; DNA; 3408 BP.

XX

AC ADH73024;

XX

DT 25-MAR-2004 (first entry)

XX

DE Human MEGF7-related DNA sequence SeqID3.

XX

KW MEGF7; epidermal growth factor-like domain; low density lipoprotein;
 KW LDL receptor-like protein; gene therapy; protein therapy;
 KW MEGF7 expression; ds; human.

XX

OS Homo sapiens.

XX

PN GB2381790-A.

XX

PD 14-MAY-2003.

XX

PF 26-SEP-2002; 2002GB-00022372.

XX

PR 26-SEP-2001; 2001GB-00023124.

PR 26-JUN-2002; 2002GB-00014703.

XX

PA (GLAXO) GLAXO GROUP LTD.

XX

PI Volpe F;

XX

DR WPI; 2003-432835/41.

XX

PT Novel isolated human MEGF7 polypeptide, a polypeptide having multiple
 PT epidermal growth factor-like domains, useful in diagnostic assays for
 PT detecting diseases associated with inappropriate MEGF7 activity or
 PT levels.

XX

PS Disclosure; SEQ ID NO 3; 47pp; English.

XX This invention relates to a novel human MEGF7 polypeptide (a polypeptide
 CC having multiple epidermal growth factor-like domains, including an
 CC unidentified low density lipoprotein (LDL) receptor-like protein). The
 CC sequences of the invention may be useful for gene therapy or protein
 CC therapy or for the modulation of MEGF7 expression and activity. The
 CC invention may be useful for the development of methods to diagnose or
 CC treat diseases associated with inappropriate MEGF7 activity or levels.

XX Sequence 3408 BP; 752 A; 943 C; 1028 G; 685 T; 0 U; 0 Other;

Query Match 10.2%; Score 18; DB 10; Length 3408;
 Best Local Similarity 100.0%; Pred. No. 13;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 130 TTCCAATGCTGGTGTGAA 147
 |||||

DB 1411 TTCCAATGCTGGTGTGAA 1428
 |||||

RESULT 5

ADH73024/c

ID ADH73024 standard; DNA; 3408 BP.

XX

AC ADH73024;

XX

DT 15-APR-2004 (first entry)

XX

DE Secreted polypeptide encoding gene #8.

XX

KW ds; gene; osteopathic; vulnery; cytostatic; gene therapy; diagnosis;
 KW forensics; gene mapping; mutation identification; biodiversity;
 KW chromosome marker; immune response; myeloid cell disorder;
 KW lymphoid cell disorder; bone cartilage; tendon; ligament;
 KW nerve tissue growth; wound healing; burns; incision; ulcer; cancer.

XX

OS Homo sapiens.

XX

PN WO2003025142-A2.

XX

PD 27-MAR-2003.

XX

PF 18-SEP-2002; 2002WO-US029636.

PR 18-SEP-2001; 2001US-0323349P.

PR 16-SEP-2002; 2002US-00323349.

XX

PA (HYSE-) HYSEQ INC.

XX

PI Tang YT, Asundi V, Goodrich RW, Ren F, Zhang J, Zhao QA, Wang J;
 PI Ghosh M, Xue AJ, Wehrman T, Weng G, Zhou P, Drmanac RT;

XX

DR WPI; 2003-354601/33.

DR P-PSDB; ADI60124.

XX

PT New polynucleotides and secreted proteins, useful for treating myeloid or
 PT lymphoid cell disorders, in bone cartilage, tendon, ligament and nerve
 PT tissue growth or regeneration, in wound healing, and in tissue repair and
 PT replacement.

XX

PS Claim 1; SEQ ID NO 8; 243pp; English.

XX The invention relates to novel isolated polynucleotides or a sequence
 CC encoding a polypeptide with biological activity, where the polynucleotide
 CC hybridizes to the polynucleotide under stringent hybridization conditions
 CC or has greater than 99% sequence identity with the polynucleotide. The
 CC polynucleotides and polypeptides are useful in diagnostics, forensics,
 CC gene mapping, identification of mutations responsible for genetic
 CC disorders and other traits, to assess biodiversity, as nutritional
 CC sources or supplements. The polynucleotides may also be used as molecular
 CC weight markers, chromosome markers or map related gene positions, or as
 CC an antigen to raise anti-DNA antibodies or elicit immune response. The
 CC polypeptides are useful for raising antibodies, as markers for tissues in
 CC which the corresponding polypeptide is expressed, for re-engineering

CC damaged or diseased tissues, for treating myeloid or lymphoid cell
 CC disorders, in bone cartilage, tendon, ligament and/or nerve tissue growth
 CC or regeneration, in wound healing, in tissue repair and replacement, in
 CC healing of burns, incisions and ulcers, and in treating cancer. This
 CC sequence corresponds to a polynucleotide sequence of the invention.

XX Sequence 3909 BP; 836 A; 1092 C; 1168 G; 823 T; 0 U; 0 Other;

Query Match 10.2%; Score 18; DB 10; Length 3909;
 Best Local Similarity 100.0%; Pred. No. 13;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 130 TTCCAATGCTGGTGTGAA 147

Db 1507 TTCCAATGCTGGTGTGAA 1524

RESULT 6

AA545254

ID AA545254 standard; cDNA; 4790 BP.

XX AA545254;

DT 18-DEC-2001 (first entry)

DE cDNA encoding novel human secretory protein, Seq ID No 523.

KW Human; secreted protein; arthritis; Crohn's disease; sepsis; shock;
 KW ischaemia-reperfusion injury; haematopoiesis; cancer; neuropathy;
 KW transgenic animal; Alzheimer's disease; Parkinson's disease; burn;
 KW amyotrophic lateral sclerosis; platelet disorder; thrombocytopenia;
 KW ulcer; osteoporosis; bone degenerative disorder; periodontal disease;
 KW gut protection; lung; liver fibrosis; immune deficiency; infection;
 KW severe combined immunodeficiency; SCID; autoimmune disorder; allergy;
 KW multiple sclerosis; rheumatoid arthritis; diabetes mellitus; asthma;
 KW fertility; analgesic; pain; antigen; ss.

OS Homo sapiens.

FN WO200166689-A2.

XX 13-SEP-2001.

XX 05-MAR-2001; 2001WO-US004942.

XX 07-MAR-2000; 2000US-00519705.

PR 19-MAY-2000; 2000US-00574454.

PR 17-JUN-2000; 2000US-00596193.

PR 14-JUL-2000; 2000US-00616847.

PR 19-SEP-2000; 2000US-00655363.

PR 20-OCT-2000; 2000US-00693367.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Liu C, Auandi V, Xu C, Wehrman T, Ren P, Ma Y, Zhou P;

PI Zhao QA, Yang Y, Drmanac RT, Zhang J, Chen R, Xue AJ, Wang J;

XX WPI; 2001-589934/66.

DR P-PSDB; AAU28354.

XX Novel polypeptides and nucleic acids obtained from cDNA libraries

PT prepared from various human tissues, for diagnosis and treatment of

PT cancer, neurological, inflammatory, and autoimmune disorders.

XX Claim 1; SEQ ID NO 523; 107pp; English.

XX The invention relates to novel isolated human secreted polypeptides (I)

CC and polynucleotides (II). (I) and (II) are useful for treating

CC inflammatory conditions such as arthritis, nephritis, Crohn's disease,

CC activity, regulation of haematopoiesis and is useful for treating myeloid

CC or lymphoid cell disorders, platelet disorders such as thrombocytopenia

CC and for regeneration of bone, cartilage, tendon, ligament and/or nerve

CC tissue growth, and in tissue repair, healing of burns, incisions, ulcers,

CC for treating osteoporosis, osteoarthritis, bone degenerative disorders,

CC or periodontal disease. Furthermore, (I) is also useful for gut

CC protection or regeneration and treatment of lung or liver fibrosis,

CC reperfusion injury in various tissues, various immune deficiencies and

CC disorders including severe combined immunodeficiency (SCID), bacterial or

CC fungal infections, autoimmune disorders e.g. multiple sclerosis,

CC rheumatoid arthritis, diabetes mellitus, myasthenia gravis, allergic

CC reactions and conditions, such as asthma or other respiratory problems.

CC In addition, (I) affects biorhythms or circadian cycles of rhythms,

CC fertility, metabolism, catabolism, anabolism, storage or elimination of

CC dietary fat, lipid, protein, carbohydrate, vitamins, minerals, provides

CC analgesic effects or other pain reducing effects, immunoglobulin like

CC activity and can act as an antigen in a vaccine composition to raise an

CC immune response. AA544920-AA545295 represent novel human secreted protein

CC coding sequences of the invention

XX SQ Sequence 4790 BP; 1126 A; 1336 C; 1368 G; 960 T; 0 U; 0 Other;

Query Match 10.2%; Score 18; DB 5; Length 4790;

Best Local Similarity 100.0%; Pred. No. 13;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 130 TTCCAATGCTGGTGTGAA 147

Db 321 TTCCAATGCTGGTGTGAA 338

RESULT 7

ADH48775

ID ADH48775 standard; DNA; 5587 BP.

XX ADH48775;

XX 25-MAR-2004 (first entry)

DT NOV25 coding sequence, SEQ ID 59.

XX Human; NOVX; atherosclerosis; hypertension; obesity; cancer; cytostatic;

XX hypotensive; antiarteriosclerotic; anorectic; gene therapy; NOV25;

XX MEGF7-like protein; chromosome 11; gene; ds; SNP;

XX single nucleotide polymorphism.

OS Homo sapiens.

XX Key Location/Qualifiers

FT Variation replace(1836,T)

FT FT /*tag= a

FT FT /standard_name= "Single nucleotide polymorphism"

XX WO200268652-A2.

XX 06-SEP-2002.

XX 26-FEB-2002; 2002WO-US005910.

XX 26-FEB-2001; 2001US-0271646P.

XX 27-FEB-2001; 2001US-0271840P.

XX 28-FEB-2001; 2001US-0272404P.

XX 28-FEB-2001; 2001US-0272405P.

XX 28-FEB-2001; 2001US-0272410P.

XX 28-FEB-2001; 2001US-0272414P.

XX 02-MAR-2001; 2001US-0272787P.


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PR 02-MAR-2001; 2001US-0272922P.
PR 02-MAR-2001; 2001US-0273048P.
PR 02-MAR-2001; 2001US-0273300P.
PR 16-MAR-2001; 2001US-0276401P.
PR 20-MAR-2001; 2001US-0277324P.
PR 20-MAR-2001; 2001US-0278660P.
PR 30-MAR-2001; 2001US-0280039P.
PR 30-MAR-2001; 2001US-0280234P.
PR 02-APR-2001; 2001US-0280818P.
PR 12-APR-2001; 2001US-0283443P.
PR 23-APR-2001; 2001US-0285754P.
PR 24-APR-2001; 2001US-0286096P.
PR 03-MAY-2001; 2001US-0288353P.
PR 17-MAY-2001; 2001US-0291703P.
PR 31-MAY-2001; 2001US-0294834P.
PR 20-JUN-2001; 2001US-0295959P.
PR 21-JUN-2001; 2001US-0299845P.
PR 05-JUL-2001; 2001US-0303242P.
PR 13-AUG-2001; 2001US-0311981P.
PR 16-AUG-2001; 2001US-0312858P.
PR 17-AUG-2001; 2001US-0313280P.
PR 29-AUG-2001; 2001US-0315614P.
PR 17-SEP-2001; 2001US-0322818P.
PR 25-FEB-2002; 2002US-00322818.
XX
PA (CURA-) CURAGEN CORP.
XX
XX Alcobrook JP, Anderson DW, Ballinger RA, Boldog FL, Burgess CE;
PI Casman SJ, Ellerman KE, Gangolli EA, Gerlach VL, Gilbert JA;
PI Gorman L, Guo X, Gusev VT, Kekuda R, Li L, Liu X, Malyankar UM;
PI Miller CE, Millet I, Padigaru M, Patturajan M, Pena CEA, Peyman JA;
PI Rastelli L, Shenoy SG, Shinkets RA, Smithson G, Spytek KA, Stone DJ;
PI Taupier RJ, Tchernev VT, Vernet CAM, Zerhusen BD;
XX
XX WPI; 2002-698672/75.
DR P-PSDB; ADH48776.
XX
XX New NOVX polypeptides or polynucleotides, useful for preventing or
PT treating disorders or syndromes e.g., atherosclerosis, hypertension,
PT obesity or cancer.
XX
XX Claim 8; Page 156-157; 923pp; English.
XX
XX The present invention relates to novel human NOVX proteins, where X is
CC any number from 1 to 91 and their coding sequences. The proteins and
CC coding sequences are useful for preventing or treating disorders or
CC syndromes e.g. atherosclerosis, hypertension, obesity or cancer. NOV25 is
CC a MEGF7-like protein and its coding sequence maps to chromosome 11.
XX
XX Sequence 5587 BP; 1297 A; 1556 C; 1610 G; 1124 T; 0 U; 0 Other;
SQ
Query Match 10.2%; Score 18; DB 6; Length 5587;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 130 TTCCAATGCTGGTGTGAA 147
DB 1087 TTCCAATGCTGGTGTGAA 1104
RESULT 8
ADH73025
ID ADH73025 standard; DNA; 5715 BP.
XX
XX ADH73025;
AC
XX
XX 25-MAR-2004 (first entry)
DT
XX
XX Human MEGF7 gene sequence.
DE
XX
XX MEGF7; epidermal growth factor-like domain; low density lipoprotein;
KW LDL receptor-like protein; gene therapy; protein therapy;
KW MEGF7 expression; human; ds; gene.
XX
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```
XX Homo sapiens.
OS
XX
XX Key Location/Qualifiers
FH CDS 1..5715
FT /*tag= a
FT /product= "Human MEGF7 protein"
FT /partial
FT /note= "No stop codon"
XX
XX GB2381790-A.
FN
XX
XX 14-MAY-2003.
PD
XX
XX 26-SEP-2002; 2002GB-00022372.
PF
XX
XX 26-SEP-2001; 2001GB-00023124.
PR
XX 26-JUN-2002; 2002GB-00014703.
XX (GLAX ) GLAXO GROUP LTD.
PA
XX
XX Volpe F;
PI
XX
XX WPI; 2003-432835/41.
DR P-PSDB; ADH73026.
XX
XX Novel isolated human MEGF7 polypeptide, a polypeptide having multiple
PT epidermal growth factor-like domains, useful in diagnostic assays for
PT detecting diseases associated with inappropriate MEGF7 activity or
PT levels.
XX
XX Claim 1; SEQ ID NO 4; 47pp; English.
XX
XX This invention relates to a novel human MEGF7 polypeptide (a polypeptide
CC having multiple epidermal growth factor-like domains, including an
CC unidentified low density lipoprotein (LDL) receptor-like protein). The
CC sequences of the invention may be useful for gene therapy or protein
CC therapy or for the modulation of MEGF7 expression and activity. The
CC invention may be useful for the development of methods to diagnose or
CC treat diseases associated with inappropriate MEGF7 activity or levels.
CC The polypeptides and polynucleotides are also useful for configuring
CC screening methods for detecting the effect of added compounds on the
CC production of mRNA and polypeptide in cells. The polynucleotides are also
CC useful as diagnostic reagents, through detecting mutations in the
CC associated gene. The polynucleotide sequence is useful for chromosome
CC localisation studies and tissue expression studies. The present sequence
CC is the gene which encodes the human MEGF7 protein of the invention.
XX
XX Sequence 5715 BP; 1316 A; 1588 C; 1665 G; 1146 T; 0 U; 0 Other;
SQ
Query Match 10.2%; Score 18; DB 10; Length 5715;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 130 TTCCAATGCTGGTGTGAA 147
DB 1246 TTCCAATGCTGGTGTGAA 1263
RESULT 9
ADN04593
ID ADN04593 standard; cDNA; 6846 BP.
XX
XX ADN04593;
AC
XX
XX 01-JUL-2004 (first entry)
DT
XX
XX Antipsoriatic cDNA sequence #504.
DE
XX
XX ds; gene; antipsoriatic; gene therapy; psoriasis; diagnosis.
KW
XX
XX Homo sapiens.
OS
XX
```

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PN WO2004028479-A2.
XX
PD 08-APR-2004:
XX
XX 25-SEP-2003; 2003WO-US030907.
XX
XX 25-SEP-2002; 2002US-0414006P.
XX
XX (GETH ) GENENTECH INC.
XX
XX Bodary S, Clark H, Jackman J, Schoenfeld J, Williams PM, Wood WI;
XX Wu TD;
XX
XX WPI; 2004-305105/28.
XX
XX P-PSDB; ADN04594.
XX
XX New PRO nucleic acid or polypeptide, useful for preparing a
XX pharmaceutical composition for diagnosing or treating psoriasis in a
XX mammal.
XX
XX Claim 1; SEQ ID NO 987; 3069pp; English.
XX
XX The invention relates to novel polynucleotide and polypeptides for
XX treating psoriasis or a sequence having at least 80% identity to the
XX above sequences. The nucleic acid is useful for preparing a composition
XX for diagnosing or treating psoriasis in a mammal. This sequence
XX corresponds to one of the polynucleotides of the invention.
XX
XX SQ Sequence 6846 BP; 1640 A; 1818 C; 1862 G; 1526 T; 0 U; 0 Other;
XX
XX Query Match 10.2%; Score 18; DB 12; Length 6846;
XX Best Local Similarity 100.0%; Pred. No. 13;
XX Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 130 TTCCAATGCTGGTGTGAA 147
XX Db 259 TTCCAATGCTGGTGTGAA 276
XX
XX RESULT 11
XX AAS45066
XX ID AAS45066 standard; cDNA; 7037 BP.
XX
XX AC AAS45066;
XX
XX DT 18-DEC-2001 (first entry)
XX
XX DE cDNA encoding novel human secretory protein, Seq ID No 147.
XX
XX KW Human; secreted protein; arthritis; Crohn's disease; sepsis; shock;
XX ischaemia-reperfusion injury; haematopoiesis; cancer; neuropathy;
XX transgenic animal; Alzheimer's disease; Parkinson's disease; burn;
XX amyotrophic lateral sclerosis; platelet disorder; thrombocytopenia;
XX ulcer; osteoporosis; bone degenerative disorder; periodontal disease;
XX gut protection; lung; liver fibrosis; immune deficiency; infection;
XX severe combined immunodeficiency; SCID; autoimmune disorder; allergy;
XX multiple sclerosis; rheumatoid arthritis; diabetes mellitus; asthma;
XX fertility; analgesic; pain; antigen; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO200166689-A2.
XX
XX PD 13-SEP-2001.
XX
XX PF 05-MAR-2001; 2001WO-US004942.
XX
XX PR 07-MAR-2000; 2000US-00519705.
XX
XX PR 19-MAY-2000; 2000US-00574454.
XX
XX PR 17-JUN-2000; 2000US-00596193.
XX
XX PR 14-JUL-2000; 2000US-00616847.
XX
XX PR 19-SEP-2000; 2000US-00665363.
XX
XX PR 20-OCT-2000; 2000US-00693267.
XX
XX PA (HYSE-) HYSEQ INC.
XX
XX Tang YT, Liu C, Asundi V, Xu C, Wehrman T, Ren F, Ma Y, Zhou P;
XX Zhao QA, Yang Y, Drmanac RT, Zhang J, Chen R, Xue AJ, Wang J;
XX
XX WPI; 2001-589934/66.
XX
XX P-PSDB; AAU28166.
XX
XX Novel polypeptides and nucleic acids obtained from cDNA libraries
XX prepared from various human tissues, for diagnosis and treatment of
XX cancer, neurological, inflammatory, and autoimmune disorders.
XX

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PN WO2004028479-A2.
XX
PD 08-APR-2004:
XX
XX 25-SEP-2003; 2003WO-US030907.
XX
XX 25-SEP-2002; 2002US-0414006P.
XX
XX (GETH ) GENENTECH INC.
XX
XX Bodary S, Clark H, Jackman J, Schoenfeld J, Williams PM, Wood WI;
XX Wu TD;
XX
XX WPI; 2004-305105/28.
XX
XX P-PSDB; ADN04594.
XX
XX New PRO nucleic acid or polypeptide, useful for preparing a
XX pharmaceutical composition for diagnosing or treating psoriasis in a
XX mammal.
XX
XX Claim 1; SEQ ID NO 987; 3069pp; English.
XX
XX The invention relates to novel polynucleotide and polypeptides for
XX treating psoriasis or a sequence having at least 80% identity to the
XX above sequences. The nucleic acid is useful for preparing a composition
XX for diagnosing or treating psoriasis in a mammal. This sequence
XX corresponds to one of the polynucleotides of the invention.
XX
XX SQ Sequence 6846 BP; 1640 A; 1818 C; 1862 G; 1526 T; 0 U; 0 Other;
XX
XX Query Match 10.2%; Score 18; DB 12; Length 6846;
XX Best Local Similarity 100.0%; Pred. No. 13;
XX Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 130 TTCCAATGCTGGTGTGAA 147
XX Db 259 TTCCAATGCTGGTGTGAA 276
XX
XX RESULT 10
XX ADQ20312
XX ID ADQ20312 standard; DNA; 6846 BP.
XX
XX AC ADQ20312;
XX
XX DT 26-AUG-2004 (first entry)
XX
XX DE Human soft tissue sarcoma-upregulated DNA - SEQ ID 3132.
XX
XX KW soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human;
XX ds.
XX
XX OS Homo sapiens.
XX
XX PN WO2004048938-A2.
XX
XX PD 10-JUN-2004.
XX
XX PF 26-NOV-2003; 2003WO-US038193.
XX
XX PR 26-NOV-2002; 2002US-0429739P.
XX
XX PA (PROT-) PROTEIN DESIGN LABS INC.
XX
XX Aziz N, Ginsburg WM, Zlotnik A;
XX
XX WPI; 2004-441208/41.
XX
XX Early detection of soft tissue sarcoma comprises determining expression
XX of a gene in a first soft tissue sample and a normal soft tissue sample
XX and comparing the gene expression, also useful in treating soft tissue
XX sarcoma.
XX

```

XX PS Claim 1; SEQ ID NO 147; 107pp; English.

XX CC The invention relates to novel isolated human secreted polypeptides (I)

XX CC and polynucleotides (II). (I) and (II) are useful for treating

XX CC inflammatory conditions such as arthritis, nephritis, Crohn's disease,

XX CC ischaemia-reperfusion injury, shock, sepsis, immune responses, and is

XX CC involved in increasing haematopoiesis, stem cell survival, bone growth

XX CC and remodeling. (II), (II) and modulators of (II) are useful for

XX CC prophylaxis or treatment of one or more cancers. (II) is also useful for

XX CC creating transgenic animals useful for studying the in vivo activities of

XX CC the polypeptide as well as for studying modulators of the polypeptides.

XX CC (I) induces the proliferation of neural cells and regeneration of nerve

XX CC and brain tissue and is useful for the treatment of central and

XX CC peripheral nervous system diseases and neuropathies, such as Alzheimer's,

XX CC Parkinson's disease, Huntington's disease, and amyotrophic lateral

XX CC sclerosis. In addition, (I) is involved in chemotactic or chemokinetic

XX CC activity, regulation of haematopoiesis and is useful for treating myeloid

XX CC and lymphoid cell disorders, platelet disorders such as thrombocytopenia

XX CC and for regeneration of bone, cartilage, tendon, ligament and/or nerve

XX CC tissue growth, and in tissue repair, healing of burns, incisions, ulcers,

XX CC for treating osteoporosis, osteoarthritis, bone degenerative disorders,

XX CC or periodontal disease. Furthermore, (I) is also useful for gut

XX CC protection or regeneration and treatment of lung or liver fibrosis,

XX CC reperfusion injury in various tissues, various immune deficiencies and

XX CC disorders including severe combined immunodeficiency (SCID), bacterial or

XX CC fungal infections, autoimmune disorders e.g. multiple sclerosis,

XX CC rheumatoid arthritis, diabetes mellitus, myasthenia gravis, allergic

XX CC reactions and conditions, such as asthma, or other respiratory problems.

XX CC In addition, (I) affects biorhythms or circadian cycles of rhythms,

XX CC fertility, metabolism, catabolism, anabolism, storage or elimination of

XX CC dietary fat, lipid, protein, carbohydrate, vitamins, minerals, provides

XX CC analgesic effects or other pain reducing effects, immunoglobulin like

XX CC activity and can act as an antigen in a vaccine composition to raise an

XX CC immune response. AA544920-AA545295 represent novel human secreted protein

XX CC coding sequences of the invention

XX SQ Sequence 7037 BP; 1681 A; 1867 C; 1925 G; 1564 T; 0 U; 0 Other;

Query Match 10.2%; Score 18; DB 5; Length 7037;

Best Local Similarity 100.0%; Pred. No. 13;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 130 TTCCAATGCTGGTGTGAA 147

|||||

Db 450 TTCCAATGCTGGTGTGAA 467

RESULT 12

ABX63780

ID ABX63780 standard; cDNA; 7132 BP.

XX AC ABX63780;

XX DT 26-FEB-2003 (first entry)

XX DE Human cDNA #780 differentially expressed in activated vascular tissue.

XX KW Human; gene; ss; vascular tissue; cytostatic; atherosclerosis; cardiant;

XX KW hypotensive; antidiabetic; gynaecological; vasotrophic; cerebroprotective;

XX KW gene therapy; vascular disease; cancer; coronary; artery disease;

XX KW hypertension; diabetes; pre-eclampsia; restenosis;

XX KW ischaemia-reperfusion injury; stroke.

XX OS Homo sapiens.

XX FN US2002137081-A1.

XX PD 26-SEP-2002.

XX PF 08-JAN-2002; 2002US-00044090.

XX PR 28-JUL-2000; 2000US-0222469P.

PR 08-JAN-2001; 2001US-0260483P.

XX PA (BAND/) BANDMAN O.

XX PI Bandman O;

XX DR WPT; 2003-110597/10.

XX PT Combination for diagnosing, staging, treating, or monitoring the

XX PT progression of treatment of a vascular disease, e.g. atherosclerosis,

XX PT comprises several cDNAs that are differentially expressed in activated

XX PT vascular tissue.

XX PS Claim 1; Page; 18pp; English.

XX CC This invention relates to a combination comprising several cDNAs that are

XX CC differentially expressed in activated vascular tissue. The invention also

XX CC discloses a high throughput method for detecting differentially expressed

XX CC cDNAs in a sample. The cDNAs of the invention may have

XX CC antiarteriosclerotic; cytostatic; cardiant; hypotensive; antidiabetic;

XX CC gynaecological; vasotrophic and cerebroprotective activities and may be

XX CC used in gene therapy. The cDNAs of the invention may be used in a high-

XX CC throughput methods for detecting differential expression of one or more

XX CC cDNAs in a sample, or screening several molecules or compounds to

XX CC identify a molecule or compound that specifically binds a cDNA of the

XX CC invention. A protein encoded by the cDNA may be used to screen several

XX CC molecules or compounds to identify a ligand that specifically binds to

XX CC the protein, or to produce or purify an antibody to the protein that can

XX CC be used to detect a protein in a sample or purify a natural or

XX CC recombinant protein from a sample. The nucleotides may be useful for

XX CC diagnosing, staging, treating, or monitoring the progression of treatment

XX CC of a vascular disease, e.g. atherosclerosis, cancer, coronary artery

XX CC disease, hypertension, diabetes, pre-eclampsia, ischaemia-reperfusion

XX CC injury, restenosis, or stroke. The cDNAs can also be used for large-scale

XX CC genetic or gene expression analysis of several new nucleic acid

XX CC molecules. Antibodies to the proteins encoded by the cDNAs are useful for

XX CC diagnosing pre-pathologic disorders, and chronic or acute diseases

XX CC associated with abnormalities in the expression, amount or distribution

XX CC of the protein. The present sequence represents a cDNA of the invention

XX CC that is differentially expressed in activated vascular tissue. Note: The

XX CC sequence data for this patent did not form part of the specification, but

XX CC was obtained in electronic format directly from USPTO at

XX CC http://seqdata.uspto.gov/sequence.html?DocID=20020137081

XX SQ Sequence 7132 BP; 1702 A; 1879 C; 1942 G; 1609 T; 0 U; 0 Other;

Query Match 10.2%; Score 18; DB 8; Length 7132;

Best Local Similarity 100.0%; Pred. No. 13;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 130 TTCCAATGCTGGTGTGAA 147

|||||

Db 259 TTCCAATGCTGGTGTGAA 276

RESULT 13

ADD93418

ID ADD93418 standard; cDNA; 7973 BP.

XX AC ADD93418;

XX DT 29-JAN-2004 (first entry)

XX DE Human lipid-associated molecule LIPAM-6 polynucleotide.

XX KW Human; lipid-associated molecule; LIPAM-6; neuroprotective; relaxant;

XX KW antithyroid; antidiabetic; cytostatic; dermatological; immunosuppressive;

XX KW antiinflammatory; thyromimetic; antiallergic; cerebroprotective;

XX KW gastrointestinal; hepatotropic; nephrotropic; anticonvulsant;

XX KW antiparkinsonian; antibacterial; antiparasitic; fungicide; protozoacide;

XX KW virucide; uropathic; antirheumatic; cardiant; cardiovascular; anti-HIV;

XX KW nootropic; gene; ss.

CC Parkinson's disease or Alzheimer's disease) or developmental disorders
CC (e.g. Down's syndrome or cerebral palsy). They are also used in gene
CC therapy. The present sequence is human LP288 DNA
XX
SQ Sequence 7974 BP; 1848 A; 2143 C; 2243 G; 1740 T; 0 U; 0 Other;
Query Match 10.2%; Score 18; DB 8; Length 7974;
Best Local Similarity 100.0%; Pred.No. 13;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 130 TTCCAATGCTGCTGTGAA 147
|||||
Db 1387 TTCCAATGCTGCTGTGAA 1404
|||||

RESULT 15
AAF94902/C
ID AAF94902 standard; cDNA; 396 BP.
XX
AC AAF94902;
XX
XX 23-MAY-2001 (first entry)
XX
DE Human ovarian cancer associated coding sequence SEQ ID NO: 93.
XX
KW Human, ovarian cancer; vaccine; gene therapy; carcinoma; ss.
OS Homo sapiens.
XX
FN WO200118046-A2.
XX
PD 15-MAR-2001.
XX
XX 08-SEP-2000; 2000WO-US024827.
XX
PR 10-SEP-1999; 99US-00394374.
PR 01-MAY-2000; 2000US-00561778.
PR 15-AUG-2000; 2000US-00640173.
PR 07-SEP-2000; 2000US-00656668.
XX
PA (CORI-) CORIXA CORP.
XX
FI Xu J, Stolk JA;
XX
XX WPI; 2001-211395/21.
XX
PT Isolated polypeptides associated with ovarian carcinomas, and the nucleic
PT acids that encode them, useful for the prevention diagnosis and treatment
PT of ovarian cancers.
XX
PS Claim 5; Page 146; 189pp; English.
XX
CC The present invention provides a number of coding sequences and proteins,
CC the over-expression of which is associated with ovarian carcinoma/cancer.
CC These can be used in the diagnosis, treatment and prevention of ovarian
CC cancer, optionally by gene therapy or in the form of a vaccine. The
CC present sequence is an example of one of these sequences
XX
SQ Sequence 396 BP; 110 A; 86 C; 79 G; 112 T; 0 U; 9 Other;
Query Match 9.6%; Score 17; DB 4; Length 396;
Best Local Similarity 100.0%; Pred.No. 49;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 149 TTCTGAGGATGAGAAC 165
|||||
Db 199 TTCTGAGGATGAGAAC 183
|||||

Search completed: August 26, 2005, 21:18:53
Job time : 326.757 secs

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OM nucleic - nucleic search, using sw model

Run on: August 26, 2005, 20:14:05 ; Search time 2006.75 Seconds
(without alignments)
3186.647 Million cell updates/sec

Title: US-10-617-978-14_COPY_73_240
Perfect score: 168
Sequence: 1 ccgggaactaccacttg.....atgagaactgaaggtctga 168

Scoring table: OLIGO_NUC

Gapop_60.0 , Gapext 60.0

Searched: 34239544 seqs, 19032134700 residues

Word size : 0

Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

EST: *
1: gb_est1: *
2: gb_est2: *
3: gb_hic: *
4: gb_est3: *
5: gb_est4: *
6: gb_est5: *
7: gb_est6: *
8: gb_gss1: *
9: gb_gss2: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	22	13.1	435	2	BE950396 UI-M-CEO-
C 2	21	12.5	379	7	CK817241 UMC-bov. 0
C 3	21	12.5	665	1	AJ814218 AJ814218
C 4	21	12.5	674	6	CB166163 KX8603014
C 5	21	12.5	728	8	CK949817 4074871 B
C 6	19	11.3	580	2	AW361823 PM0-CT026
C 7	19	11.3	1101	8	B10170 F14D20-Sp6
C 8	18	10.7	263	2	BS586775 BS586775
C 9	18	10.7	313	4	BG503087
C 10	18	10.7	360	8	BZ686719 PUBBU547D
C 11	18	10.7	423	8	AQ405655 HS_5049 B
C 12	18	10.7	466	7	CF794539 890065 MA
C 13	18	10.7	466	8	AZ644277 IM0508H11
C 14	18	10.7	477	4	BG603242
C 15	18	10.7	483	9	PT003115U
C 16	18	10.7	547	8	BZ675947
C 17	18	10.7	554	5	BP615364
C 18	18	10.7	587	8	CC900317 ZMBBb023
C 19	18	10.7	589	8	AQ350422
C 20	18	10.7	610	4	BG503086
C 21	18	10.7	611	7	CK898930
C 22	18	10.7	621	7	CF793169
C 23	18	10.7	623	6	CB963735
C 24	18	10.7	628	4	BJ623886

25	18	10.7	640	8	AZ710307
26	18	10.7	656	2	BF611918
27	18	10.7	675	5	BX850657
28	18	10.7	724	6	CB592178
29	18	10.7	732	9	EX130112
30	18	10.7	748	7	CK352152
31	18	10.7	752	9	CC923223
32	18	10.7	755	5	BP678876
33	18	10.7	756	6	CB206666
34	18	10.7	781	4	BG400860
35	18	10.7	795	5	BU910572
36	18	10.7	806	8	BH360033
37	18	10.7	806	8	BH360034
38	18	10.7	819	9	CG791244
39	18	10.7	821	9	CC490159
40	18	10.7	822	9	CG043458
41	18	10.7	857	5	BQ736159
42	18	10.7	869	6	CB941331
43	18	10.7	948	6	CD255176
44	18	10.7	1055	4	BM802977
45	18	10.7	1084	6	CA974306

ALIGNMENTS

RESULT 1
BE950396/c
LOCUS BE950396 435 bp mRNA linear EST 29-APR-2002
DEFINITION UI-M-CEO-ayw-a-10-0-UI.s1 NIH BMAP Ret3 Mus musculus cDNA clone
UI-M-CEO-ayw-a-10-0-UI 3', mRNA sequence.
ACCESSION BE950396
VERSION BE950396.1 GI:10589062
KEYWORDS EST.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 435)
AUTHORS Ronaldo, M.F., Lennon, G. and Soares, M.B.
TITLE Normalization and subtraction: two approaches to facilitate gene
discovery
JOURNAL Genome Res. 6 (9), 791-806 (1996)
MEDLINE 9704477
PUBMED 8889548
COMMENT Contact: Chin, H
National Institute of Mental Health
6001 Executive Blvd. Room 7N-7190, MSC 9643, Bethesda, MD
20892-9643, USA
Tel: 301 443 1706
Fax: 301 443 9890
Email: mestr@mail.nih.gov
The sequence contained an oligo-dt track that was present in the
oligonucleotide that was used to prime the synthesis of first
strand cDNA and therefore this may represent a bonafide poly A
tail. The sequence tag present in the cDNA between the NotI site
and the oligo-dt track served to verify it as a clone from the
retina tissue cDNA library preparation: M.B. Soares Lab Clone
distribution: Researchers may obtain BMAP cDNA clones from RESEARCH
GENETICS. It should be noted that Bento Soares is generating a
small number of additional specialized non-redundant arrays of BMAP
cDNAs whose availability will be considered under appropriate and
limited collaborative arrangements. The tissue for this library was
contributed by Dr. Xin-ruan Fu, Yale University School of Medicine
The following repetitive elements were found in this cDNA sequence:
1-21, >AT rich#Low complexity 169-428, >Lx9#LINE/11
Seq primer: M13 Forward
POLYA=Yes
Location/Qualifiers
1. .435
/organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL/6J"

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/db_xref="taxon:10090"
/clone="UI-M-CEO-ayw-a-10-0-UI"
/dev_stage="6 weeks"
/lab_host="DH10B (Life Technologies)"
/clone_lib="NIH_BMAP_Ret3"
/vector="p7T3D-Pac (Pharmacia) with a modified
NIH_BMAP_Ret3 library is derived from mouse retina tissue.
For a detailed description of the library from which this
clone was derived, please visit our web site at
braineast.eng.uiowa.edu. The tissue for this library was
contributed by Dr. Xin-Yuan Fu, Yale University School of
Medicine
TAG_TISSUE=adult-retina
TAG_LIB=NIH_BMAP_Ret3
TAG_SEQ=GTGAGCGCGCAC

ORIGIN
Query Match      13.1%; Score 22; DB 2; Length 435;
Best Local Similarity 100.0%; Pred.No. 0.35;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 72 CATTAAAGATCTGTCAGAAACAC 93
| | | | | | | | | | | | | | | |
Db 127 CATTAAAGATCTGTCAGAAACAC 106

RESULT 2
LOCUS CK817241 379 bp mRNA linear EST 01-MAR-2004
DEFINITION UMC-bov OB01-009-f11 Day 0 Oviduct post-LH surge bov Bos taurus
CDNA 3'- mRNA sequence.
ACCESSION CK817241
VERSION CK817241.1 GI:44834166
KEYWORDS EST.
SOURCE Bos taurus (cow)
ORGANISM Bos taurus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
Bovinae; Bos.
1 (bases 1 to 379)
Prather,R.S., Antoniou,E., Garverick,H.A., Green,J.A., Lucy,M.C.,
Roberts,R.M., Smith,M.F. and Youngquist,R.S.
USDA Grant NRI-2002-03476: Bovine ESTs: Focus on Female
Reproduction
Unpublished (2002)
Contact: DNA Core Facility (Bovine Project)
Animal Science - RS Prather
University of Missouri-Columbia
M616 Medical Sciences Bldg., Columbia, MO 65212, USA
Tel: 573/882-0428
Fax: 573/884-5552
Email: bovine@net.missouri.edu
POLYA=yes.

FEATURES
source
1..379
/organism="Bos taurus"
/mol_type="mRNA"
/db_xref="taxon:9913"
/clone_lib="bov"
/notes="Funding: The production of ESTs submitted in this
project was funded by USDA Grant MRI-2002-03476 entitled
'Bovine ESTs: Focus on Female Reproduction' to RS Prather,
E Antoniou, HA Garverick, JA Green, MC Lucy, RM Roberts,
MF Smith and RS Youngquist. Genetic Source: Heifers for
the project were purchased from Circle A Ranch, Iberia, MO
(http://www.circlea ranch.com/home.html). These heifers,
while not registered have known Angus pedigrees going back
at least 4 generations. Samples collected: The samples
consisted of the following: Germinal vesicle-stage
oocytes; in vitro derived embryos (2-cell, morula,
blastocyst and nuclear transfer blastocyst); in vivo
blastocysts and conceptuses (days 8, 14, 16 and 18);

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corpora lutea (days 3, 5, 8, 14, 16, 18 and 35); ovarian follicles (days 0, non-recruited, recruited, early selected and preovulatory); oviduct (days 0, 3 and 5); endometrium (days 5, 8, 14, 16, 18 and 35); and placenta/embryo from day 35 conceptuses. Expanded descriptions of how the tissues were collected can be found at the following URL: <http://genome.rnet.missouri.edu/Bovine/Methods.html>. Library construction (Standard Protocol): All procedures have been described in detail elsewhere (Soares et al., 1994; Bonaldo et al., 1996; Jiang et al., 2001). Total cellular RNA from each sample was isolated by using STAT-60 reagent (Tel-Test, Friendswood, TX) and the poly(A)⁺ RNA was obtained by two rounds of purification with the Oligotex mRNA isolation kit (Qiagen) according to the manufacturer's instructions. The libraries were described by E. Ferguson and R. Woods essentially as described by the manufacturer's instructions provided with the SuperScript Plasmid System (Invitrogen, cat. no. 18248-013). Briefly, 1mcg of poly(A)⁺ RNA was annealed at 37 degrees with 10mcg of NotI-tag-dT18 oligonucleotide (GCTGTCGCGCGCGC-tag-T18) and reverse transcribed at c37 degrees with Superscript II (Invitrogen) reverse transcriptase (Jiang et al., 2001). The 'tag' represents a tissue/stage-specific ten-base sequence identifier (<http://genome.uiowa.edu/pubsoft/software.html>) present in the oligonucleotide used to prime first-strand synthesis. Second strand synthesis was performed with T4 DNA Polymerase in the presence of DNA ligase and RNase H. After second strand synthesis, the double-stranded cDNAs were ligated to SalI adapters (Invitrogen-Life Technologies) and digested with NotI. The cDNAs were size selected by passage through cDNA size fractionation columns (Invitrogen-Life Technologies). The cDNAs derived from each developmental stage of a particular tissue were mixed on an equimolar basis and ligated directionally into the NotI and SalI sites of the pCMV-SPORT6 vector (Invitrogen). After ligation of the inserts, the plasmids were electroporated into DH10B bacteria. Library that was constructed (PCR protocol): The amount of mRNA that was recovered from oocytes and embryos was quite limiting and was not sufficient for library production with the standard protocol. Therefore, PCR-based protocol was utilized for producing libraries from sources in which the amount of extracted mRNA was small (oocytes and embryos). Poly-A RNA was isolated by using the MicroPoly(A) Pure kit from Ambion (cat. # 1918). The mRNA was reverse transcribed with a NotI-tag-dT18 oligonucleotide and a SMART oligonucleotide (Clontech) modified to contain a SalI site to generate full-length cDNA with a sequence complementary to the SMART oligonucleotide. Sequences within the SMART and dt oligonucleotides were used as primers to amplify the cDNAs by PCR with pfu turbo purified, digested with NotI and SalI and size fractionated by using Chroma Spin-1000 columns (Clontech). Purified cDNA from each PCR reaction was quantitated and mixed on an equimolar basis for ligation into the pCMV-SPORT6 vector. Preliminary Library Characterization: Randomly chosen clones from each library were analyzed by restriction digestion to determine average insert size (96 clones) and by sequencing (~4 96-well plates) to confirm library quality (e.g. the presence of short polyA tails, genomic DNA contamination (must be <1%), ribosomal RNA clones (must be <1%), etc.) and to provide a sequence database representing the predominant clones in each library. The clones were sequenced at the University of Missouri-Columbia DNA Core Facility. After production of the libraries, equal numbers of recombinants from each library were pooled to produce a single mixed library (mega-library) for more extensive sequencing. Bioinformatics work was performed by GK Springer's bioinformatics group (Spollen WG, Topinka CM, Khambati AA)

in Computer Science at the University of Missouri-Columbia. Clone Requests: Requests for clones should be made to the Director of the University of Missouri DNA Core facility at: bovine@net.missouri.edu. Bonaldo MF, Lennon G, Soares MB. Normalization and Subtraction: Two approaches to facilitate gene discovery. Genome Res, 1996; 6:791-806. Jiang H, Bivens NJ, Ries JE, Whitworth KM, Green JA, Forrester LJ, Springer GK, Didion BA, Mathialagan N, Prather RS, Lucy MC (2001) Constructing cDNA libraries with fewer clones that contain long poly(dA) tails. Biotechniques 31:38-42. Soares MB, MF Banaldo, P Jelene, L Su, L Lawton, A Efstratiadis. 1994. Construction and characterization of a normalized cDNA library. Proc Natl Acad Sci, 91:9228-9232. TAG TISSUE=Day 0 Oviduct post-LH surge TAG_SEQ=GTGACCGATG"

ORIGIN

Query Match 12.5%; Score 21; DB 7; Length 379;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 72 CATTAGATCTGTCAGAAACA 92
|||||
DB 343 CATTAGATCTGTCAGAAACA 363

RESULT 3

AJ814218/c AJ814218 665 bp mRNA linear EST 13-SEP-2004
LOCUS
DEFINITION
ACCESSION
VERSION
AJ814218.1 GI:51881694
KEYWORDS
EST.
SOURCE
Bos sp.
ORGANISM

REFERENCE

AUTHORS
TITLE
JOURNAL
COMMENT
McGuire, K. and Glass, E.J.
Unpublished ESTs, McGuire and Glass
Contact: McGuire K
Genomics and Genetics
Roslin Institute
Roslin, Midlothian, EH25 9PS, UNITED KINGDOM
Single pass sequencing. Bases called and trimmed with phred v0.020425.c. Vector identified by cross_match with the -minscore 20 and -minmatch 12 options. Vector:pBluescriptII(SK+) R. Site 1:EcoRV(lost) R. Site 2:NotI Seq Primer: T7 Normalised library constructed from pooled monocytes from Bos taurus (Holstein) and Bos indicus (Sahiwal) cattle subjected to various stimuli, including infection with the protozoan parasite Theileria annulata.

FEATURES

source
1..665
/organism="Bos sp."
/mol_type="mRNA"
/db_xref="taxon:29061"
/clone="C0005198j2"
/tissue_type="blood"
/cell_type="bovine monocyte"
/clone_lib="KN206"
/note="Vector: pBluescriptII(SK+); Site 1: EcoRV(lost); Site 2: NotI; Normalised library constructed from pooled monocytes from Bos taurus (Holstein) and Bos indicus (Sahiwal) cattle subjected to various stimuli, including infection with the protozoan parasite Theileria annulata"

ORIGIN

Query Match 12.5%; Score 21; DB 1; Length 665;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 72 CATTAGATCTGTCAGAAACA 92
|||||
DB 360 CATTAGATCTGTCAGAAACA 340

RESULT 4

CB166163
LOCUS
DEFINITION
CB166163 674 bp mRNA linear EST 30-JAN-2003
CBX603014860.R1 CSEQFXN32 hypothalamus Bos taurus cDNA, mRNA
sequence.
CB166163
VERSION
CB166163.1 GI:28152288
KEYWORDS
EST.
SOURCE
Bos taurus (cow)
ORGANISM

REFERENCE

AUTHORS
TITLE
JOURNAL
COMMENT
Adelson, D.L. and Gill, C.A.
Bovine ESTs (Adelson and Gill)
Unpublished (2003)
Contact: David L. Adelson
Animal Breeding and Genetics
Texas A&M University
Animal Science Dept., TAMU-2471, College Station, TX 77843-2471, USA
Tel: 9798452616
Fax: 9798456970
Email: david.adelson@tamu.edu.
Location/Qualifiers
1..674
/organism="Bos taurus"
/mol_type="mRNA"
/db_xref="taxon:9913"
/tissue_type="hypothalamus"
/clone_lib="CSEQFXN32 hypothalamus"
/note="Organ: hypothalamus; Vector: pBluescript SK+;
Site 1: NotI; Site 2: EcoRI; sequence 5' of the insert (5'-NNN...NNNinsert)
GCGAATTGGAGCTCCACCGGTGGCGCGCGCTCGAG. Sequence 3' of the inserts (AAGAATTCGATCAAGCTATCGATACCGTCGACCTCGAG. normalized Rd 1 library, sequenced 3' with M13R primer."

FEATURES

source
12.5%; Score 21; DB 6; Length 674;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

ORIGIN

QY 72 CATTAGATCTGTCAGAAACA 92
|||||
DB 345 CATTAGATCTGTCAGAAACA 365

RESULT 5

CK949817/c CK949817 728 bp mRNA linear EST 15-MAR-2004
LOCUS
DEFINITION
4074871 BARC 10BOV Bos taurus cDNA clone 10BOV26_I08 5', mRNA
sequence.
CK949817
VERSION
CK949817.1 GI:45464197
KEYWORDS
EST.
SOURCE
Bos taurus (cow)
ORGANISM

REFERENCE

AUTHORS
TITLE
Sonstegard, T.S., Van Tassel, C.P., Matukumalli, L.K., Harhay, G.P., Bosak, S., Rubenfield, M. and Gaabbarre, L.C.
Production of EST from cDNA libraries derived from immunologically activated bovine gut

```

JOURNAL COMMENT
Unpublished (2004)
Contact: Tad S. Sonstegard
Bovine Functional Genomics Laboratory
Animal and Natural Resources Institute
Bldg. 200 Rm2A BARC-East, Beltsville, MD 20705, USA
Tel: 3015048416
Fax: 3015048414
Email: tads@nri.barc.usda.gov
Single pass sequencing. Bases called and trimmed with phred
0.000925 using options -trim_alt "-trim.fasta. Vector identified
by cross match using options -minmatch 12 -minscore 12
Plate: 26 row: I column: 08
Seq primer: CCCAGTCACGCGTGTAAACG
High quality sequence stop: 728.

FEATURES
    source
        Location/Qualifiers
            1..728
                /organism="Bos taurus"
                /mol_type="mRNA"
                /strains="Holstein"
                /db_xref="taxon:9913"
                /clone="10BOV26_108"
                /sex="Male"
                /tissue_type="Pooled"
                /dev_stage="Multipl"
                /lab_host="DH10B T1 phage resistant"
                /clone_lib="BARC 10BOV"
                /note="Organ: Small Intestine; Vector: pGen-1; Site: 1:
                EcoRI; Site 2: NotI; Equimolar amounts of mRNA extracted
                from proximal jejunums of 18 and 21 wk old steers, and
                distal ileums of 14 day old calves. proximal jejunum
                exposed to C. oncophora for 3 and 6 weeks, and distal
                ileum exposed to C. parvum for 7 days"

ORIGIN
Query Match 12.5%; Score 21; DB 7; Length 728;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 72 CATTAGATCTGTCAGAAACA 92
Db 499 CATTAGATCTGTCAGAAACA 479

RESULT 6
AW361823
LOCUS PM0-CT0263-021299-006-b02 CT0263 Homo sapiens cDNA, mRNA sequence.
ACCESSION AW361823
VERSION AW361823.1 GI:6866473
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 580)
HCGP http://www.ludwig.org.br/ORESTES
The FAPESP/LICR Human Cancer Genome Project
Unpublished (1999)
Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=PM0&t2=PM0-CT0263-
021299-006-b02&t3=1999-12-02&t4=1)
Seq primer: puc 18 forward
High quality sequence start: 3
High quality sequence stop: 148.

FEATURES
    source
        Location/Qualifiers
            1..580
                /organism="Homo sapiens"
                /mol_type="mRNA"
                /db_xref="taxon:9606"
                /dev_stage="Adult"
                /clone_lib="CT0263"
                /note="Organ: colon; Vector: puc18; Site 1: SmaI; Site 2:
                SmaI; A mini-library was made by cloning products derived
                from ORESTES PCR (U.S. Letters Patent application No.
                196,716 - Ludwig Institute for Cancer Research) profiles
                into the pUC 18 vector. Reverse transcription of tissue
                mRNA and cDNA amplification were performed under low
                stringency conditions."

ORIGIN
Query Match 11.3%; Score 19; DB 2; Length 580;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 120 CTTCATGCTGCTGCGAA 138
Db 98 CTTCATGCTGCTGCGAA 116

RESULT 7
B10170
LOCUS F14D20-SP6 IGF Arabidopsis thaliana genomic clone F14D20, genomic
DEFINITION survey sequence.
ACCESSION B10170
VERSION B10170.1 GI:2091289
KEYWORDS GSS.
SOURCE Arabidopsis thaliana (thale cress)
ORGANISM Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
1 (bases 1 to 1101)
Feng,J., Dewar,K., Buehler,E., Kim,C., Li,Y., Shinn,P., Sun,H. and
Ecker,J.
BAC End Sequences at ATGC
Unpublished (1997)
Other GSSs: F14D20-T7
Contact: Ecker J.
Arabidopsis Thaliana Genome Center
University of Pennsylvania
Dept. of Biology, University of Pennsylvania, Philadelphia, PA
19104
Tel: 215-898-9384
Fax: 215-898-8780
Email: jecker@atgenome.bio.upenn.edu
Seq primer: Sp6
Class: BAC ends
High quality sequence start: 121
High quality sequence stop: 802.

FEATURES
    source
        Location/Qualifiers
            1..1101
                /organism="Arabidopsis thaliana"
                /mol_type="genomic DNA"
                /ecotype="Columbia"
                /db_xref="taxon:3702"
                /clone="F14D20"
                /sex="hermaphrodite"
                /clone_lib="IGF"
                /notes="Vector: BelOBACII; Site 1: EcoRI; Site 2: EcoRI;
                Produced by Thomas Altmann"

ORIGIN
Query Match 11.3%; Score 19; DB 8; Length 1101;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

137 AATTTCTGAAGGATGAGAA 155
 |||||
 405 AATTTCTGAAGGATGAGAA 423

BB586775 263 bp mRNA linear EST 30-NOV-2000
 musculus cDNA clone 9570005A14 5', mRNA sequence.

BB586775
 BB586775.1 GI:11483319
 EST.
 Mus musculus (house mouse)

Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 263)

Aizawa,K., Akahira,S., Akimura,T., Arai,A., Arakawa,T.,
 Carninci,P., Hanagaki,T., Hayatsu,N., Hiraoka,T., Hirozane,T.,
 Hodojima,Y., Imotani,K., Ishii,Y., Itoh,M., Izawa,M., Kawai,J.,
 Kojima,Y., Konno,H., Kusakabe,M., Matsuyama,T., Miyazaki,A.,
 Nakamura,M., Nishi,K., Nomura,K., Numazaki,R., Okazaki,Y.,
 Okido,I., Owa,C., Sakai,C., Sakai,K., Sasaki,D., Sato,K.,
 Shibata,K., Shibata,Y., Shinagawa,A., Shiraki,T., Sogabe,Y.,
 Suzuki,H., Tagawa,A., Takahashi,F., Tanaka,T., Toya,T.,
 Watahiki,A., Yamamura,T., Yasunishi,A., Yoshida,K., Yoshiki,A.,
 Muramatsu,M. and Hayashizaki,Y.
 RIKEN Mouse ESTs (Aizawa,K. et al. 2000)
 Unpublished (2000)

CONTACT: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center (GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gscc.riken.jp, URL: http://genome.gsc.riken.jp/
 Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoka,S.,
 Sasaki,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
 Thermotabilization and thermoactivation of thermolabile enzymes by
 trehalose and its application for the synthesis of full length
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
 Itoh,M., Kiteunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J.,
 Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M.,
 Okazaki,Y. and Hayashizaki,Y.
 Automated filtration-based high-throughput plasmid preparation
 system. Genome Res. 9 (5), 463-470 (1999)
 Carninci,P. and Hayashizaki,Y.
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
 19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for
 further details.

FEATURES
 source
 Location/Qualifiers
 1..263
 /organism="Mus musculus"
 /mol_type="mRNA"
 /db_xref="taxon:10090"
 /clone="9570005A14"
 /sex="male"
 /tissue_type="urinary bladder"
 /dev_stage="adult"
 /lab_host="DH10B"
 /clone_lib="RIKEN full-length enriched, adult male urinary
 bladder"
 /note="Site 1: SalI; Site 2: BamHI; cDNA library was
 prepared and sequenced in Mouse Genome Encyclopedia
 Project of Genome Exploration Research Group in Riken
 Genomic Sciences Center and Genome Science Laboratory in
 RIKEN. Division of Experimental Animal Research in Riken
 contributed to prepare mouse tissues. 1st strand cDNA was
 primed with a primer [5'
 GAGAGAGAGAGAGATCCAGAGCTCTTTTTTTTTTTTTTTT 3'], cDNA was

prepared by using trehalose thermo-activated reverse
 transcriptase and subsequently enriched for full-length by
 cap-trapper. cDNA went through one round of normalization
 to Rot = 20.0 and subtraction to Rot = 370.0. Second
 strand cDNA was prepared with the primer adapter of
 sequence [5' GAGAGAGATTCGAGTTAATAATTAATTCCTCCCCCCCCCCC
 3']. cDNA was cleaved with XhoI and BamHI. Vector: a
 modified phluescript KS(+) after bulk excision from
 Lambda FLC I."

ORIGIN
 Query Match 10.7%; Score 18; DB 2; Length 263;
 Best Local Similarity 100.0%; Pred. No. 67;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 133 TGTGAATTTCTGAAGGAT 150
 |||||
 Db 168 TGTGAATTTCTGAAGGAT 185

RESULT 9
 BG603087/c
 LOCUS
 DEFINITION
 BG603087 313 bp mRNA linear EST 14-AUG-2001
 clone PYCDN74, mRNA sequence.

ACCESSION
 BG603087
 VERSION
 BG603087.1 GI:15153101
 KEYWORDS
 EST.
 SOURCE
 Plasmodium yoelii
 ORGANISM
 Plasmodium yoelii
 Eukaryota; Alveolata; Apicomplexa; Haemosporidia; Plasmodium.
 1 (bases 1 to 313)

AUTHORS
 Kappe,S.H.I., Gardner,M.J., Brown,S.M., Ross,J., Matuschewski,K.,
 Ribeiro,J.M., Adams,J.H., Quackenbush,J., Cho,J., Carucci,D.J.,
 Hoffman,S.B. and Nussenzweig,V.
 Exploring the transcriptome of the malaria sporozoite stage
 Proc. Natl. Acad. Sci. U.S.A. 98 (17), 9895-9900 (2001)

TITLE
 JOURNAL
 MEDLINE
 PUBMED
 COMMENT
 Contact: Malcolm J. Gardner
 Department of Eukaryotic Genomics
 The Institute for Genomic Research
 9712 Medical Center Drive, Rockville, MD 20850, USA
 Tel: 301 838 3519
 Fax: 301 838 0208
 Email: gardner@tigr.org
 Request for clones, please contact: Stefan Kappe,
 kappes01@popmail.med.nyu.edu Michael Heidelberger, Division,
 Department of Pathology New York University School of Medicine.
 Location/Qualifiers
 1..313
 /organism="Plasmodium yoelii"
 /mol_type="mRNA"
 /strain="17XNL"
 /db_xref="taxon:5961"
 /clone="PYCDN74"
 /dev_stage="sporozoites from salivary gland"
 /lab_host="E. coli TOP10"
 /clone_lib="Plasmodium yoelii sporozoite cDNA"
 /note="vector: pCR4; TA cloning; Plasmodium yoelii
 sporozoite cDNA library from salivary gland sporozoites 14
 days post-infection"

FEATURES
 source
 Location/Qualifiers
 1..313
 /organism="Plasmodium yoelii"
 /mol_type="mRNA"
 /strain="17XNL"
 /db_xref="taxon:5961"
 /clone="PYCDN74"
 /dev_stage="sporozoites from salivary gland"
 /lab_host="E. coli TOP10"
 /clone_lib="Plasmodium yoelii sporozoite cDNA"
 /note="vector: pCR4; TA cloning; Plasmodium yoelii
 sporozoite cDNA library from salivary gland sporozoites 14
 days post-infection"

ORIGIN
 Query Match 10.7%; Score 18; DB 4; Length 313;
 Best Local Similarity 100.0%; Pred. No. 67;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 125 AATGCTGGTGTGAATTC 142
 |||||
 Db 218 AATGCTGGTGTGAATTC 201

```

RESULT 10
BZ686719/c
LOCUS      BZ686719          360 bp    DNA          linear          GSS 05-FEB-2003
DEFINITION PUBU54TD.ZM.0.6.1.0.KB Zea mays genomic clone ZMMBTa019J11,
            genomic survey sequence.
ACCESSION  BZ686719
VERSION    BZ686719.1  GI:28247227
KEYWORDS   GSS.
SOURCE     Zea mays
ORGANISM   Zea mays
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
            clade; Panicoideae; Andropogoneae; Zea.
REFERENCE  1 (bases 1 to 360)
AUTHORS   Whitelaw,C.A., Quackenbush,J., Van Aken,S., Uterback,T.,
            Renick,A., Fraser,C.M., Yuan,Y., San Miguel,P., Ma,J. and
            Bennetzen,J.
TITLE     Maize Genomics Consortium
JOURNAL   Unpublished (2003)
COMMENT   Contact: Cathy Whitelaw
            TIGR
            9712 Medical Center Drive, Rockville, MD 20850, USA
            Tel: 301-838-5843
            Fax: 301-838-0208
            Email: whitelaw@tigr.org
            Seq primer: 1F
            Class: sheared ends.
            Location/Qualifiers
                1..360
                /organism="Zea mays"
                /mol_type="genomic DNA"
                /strain="B73"
                /db_xref="taxon:4577"
                /clone="ZMMBTa019J11"
                /clone_lib="ZM 0.6 1.0 KB"
                /note="Vector: pCR4-TOPO; Site 1: EcoRI; 0.6-1.0 kb high
                Cot selected genomic DNA library"

ORIGIN
Query Match      10.7%; Score 18; DB 8; Length 360;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 75 TAAGATCTGTCAGAAACA 92
Db 57 TAAGATCTGTCAGAAACA 40

RESULT 11
AQ405655/c
LOCUS      AQ405655          423 bp    DNA          linear          GSS 13-MAR-1999
DEFINITION HS_5049_B1.G07.SP6E.RPCI-11 Human Male BAC Library Homo sapiens
            genomic clone Plates=625 Col=13 Row=N, genomic survey sequence.
ACCESSION  AQ405655
VERSION    AQ405655.1  GI:4415643
KEYWORDS   GSS.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 423)
AUTHORS   Mahaitas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T.,
            Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and
            Hood,L.
TITLE     Sequence-tagged connectors: A sequence approach to mapping and
            scanning the human genome
JOURNAL   Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)
MEDLINE   99380589
PUBMED    10449764
COMMENT   Contact: Mahairas GG, Wallace JC, Hood L
            High Throughput Sequencing Center
            University of Washington
            401 Queen Anne Avenue North, Seattle, WA 98109, USA

```

```

Tel: (206) 616-3618
Fax: (206) 616-3887
Email: jwallace@u.washington.edu
Clones are derived from the human BAC library RPCI-11. For BAC
library availability, please contact Pieter de Jong
(pieter@dejong.med.buffalo.edu). Clones may be purchased from
BACPAC Resources (http://bacpac.med.buffalo.edu/ordering_bac.htm)
or from Research Genetics (info@resgen.com). BAC end Web Server:
http://www.htsc.washington.edu
Plate: 625 row: N column: 13
Seq primer: SP6
Class: BAC ends
High quality sequence stop: 423.
            Location/Qualifiers
                1..423
                /organism="Homo sapiens"
                /mol_type="genomic DNA"
                /db_xref="taxon:9606"
                /clone="Plate=625 Col=13 Row=N"
                /sex="male"
                /clone_lib="RPCI-11 Human Male BAC Library"
                /note="Vector: pBACe3.6; Site 1: EcoRI; Site 2: EcoRI;
                Male blood DNA was isolated from one randomly chosen donor
                and partially digested with a combination of EcoRI and
                EcoRI Methylase. Size selected DNA was cloned into the
                pBACe3.6 vector at EcoRI sites"

ORIGIN
Query Match      10.7%; Score 18; DB 8; Length 423;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 132 GTGTGAATTTCTGAAGGA 149
Db 260 GTGTGAATTTCTGAAGGA 243

RESULT 12
CF794539
LOCUS      CF794539          466 bp    mRNA          linear          EST 21-OCT-2003
DEFINITION 890065 MARC 4PIG Sus scrofa cDNA 5', mRNA sequence.
ACCESSION  CF794539
VERSION    CF794539.1  GI:37799112
KEYWORDS   EST.
SOURCE     Sus scrofa (pig)
ORGANISM   Sus scrofa
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
REFERENCE  1 (bases 1 to 466)
AUTHORS   Smith,T.P.L., Preking,B.A., Ford,J.J., Vallet,J.L., Wise,T.A.,
            Nonneman,D.J., Wray,J.E. and Keele,J.W.
TITLE     Porcine EST collection using a normalized library constructed from
            embryos representing early developmental stages
JOURNAL   Unpublished (2003)
COMMENT   Contact: Smith TPL
            USDA, ARS, US Meat Animal Research Center
            PO Box 166, Clay Center, NE 68933-0166, USA
            Tel: 402 762 4366
            Fax: 402 762 4390
            Email: smith@email.marc.usda.gov
            Single pass sequencing. Bases called with phred v0.020425.c and
            trimmed with the aid of the trim_alt option. Vector identified with
            cross_match v0.990329.
            Plate: TWM8014 row: E column: 12
            Seq primer: GTAATACGACTCACTATAGG.
            Location/Qualifiers
                1..466
                /organism="Sus scrofa"
                /mol_type="mRNA"
                /db_xref="taxon:9823"
                /tissue_type="pooled"
                /lab_host="DH10B"
                /clone_lib="MARC 4PIG"

```

/note="Vector: pcDNA3.1; Site 1: EcoRI; Site 2: NotI; library made with combined RNA from day-10, day-13, day-15, day-25, and day-30 whole embryos."

ORIGIN

Query Match 10.7%; Score 18; DB 7; Length 466;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 136 GAATTTCTGAAGGATGAG 153
|||||

Db 108 GAATTTCTGAAGGATGAG 125
|||||

RESULT 13

AZ644277

LOCUS

DEFINITION AZ644277 466 bp DNA linear GSS 14-DEC-2000
IM0508H11F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0508H11 F, genomic survey sequence.

ACCESSION

VERSION AZ644277

KEYWORDS GSS.

SOURCE AZ644277.1 GI:11772649

ORGANISM Mus musculus (house mouse)

REFERENCE

AUTHORS

1 (bases 1 to 466)
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

AUTHORS

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Kelly,M., Rose,W., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D., Weiss,R.

TITLE

Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

JOURNAL

COMMENT

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0508 row: H column: 11

Seq primer: CGTTGTAAACGACGCCAGT

Class: plasmid ends

High quality sequence stop: 466.

Location/Qualifiers

1..466

/organism="Mus musculus"

/mol_type="genomic DNA"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UUGC1M0508H11"

/sex="Male"

/lab_host="E. Coli strain XL10-Gold, Ti-resistant, F-"

/clone_lib="Mouse 10kb plasmid UUGC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to

ORIGIN

Query Match 10.7%; Score 18; DB 8; Length 466;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 133 TGTGAATTTCTGAAGGAT 150
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Db 102 TGTGAATTTCTGAAGGAT 119
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RESULT 14

BG603242/c

LOCUS

DEFINITION BG603242 477 bp mRNA linear EST 14-AUG-2001
EST502332 Plasmodium yoelii sporozoite cDNA Plasmodium yoelii cDNA
clone PYCDP45, mRNA sequence.

ACCESSION

VERSION BG603242

KEYWORDS EST.

SOURCE BG603242.1 GI:15153256

ORGANISM Plasmodium yoelii

REFERENCE

AUTHORS

1 (bases 1 to 477)

Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.

AUTHORS

Kappe,S.H.I., Gardner,M.J., Brown,S.M., Ross,J., Matuschewski,K.,
Ribeiro,J.M., Adams,J.H., Quackenbush,J., Cho,J., Carucci,D.J.,
Hoffman,S.L. and Nussenzweig,V.

TITLE

Exploring the transcriptome of the malaria sporozoite stage

JOURNAL

MEDLINE

PUBMED

COMMENT

11493695

Contact: Malcolm J. Gardner

Department of Eukaryotic Genomics

The Institute for Genomic Research

9712 Medical Center Drive, Rockville, MD 20850, USA

Tel: 301 838 3519

Fax: 301 838 0208

Email: gardner@tigr.org

Request for clones, please contact: Stefan Kappe, Division,

kappes01@popmail.med.nyu.edu Michael Heidelberger, Division,

Department of Pathology New York University School of Medicine.

Location/Qualifiers

1..477

/organism="Plasmodium yoelii"

/mol_type="mRNA"

/strain="17XNL"

/db_xref="taxon:5861"

/clones="PYCDP45"

/dev_stage="sporozoites from salivary gland"

/lab_host="E. coli TOP10"

/clone_lib="Plasmodium yoelii sporozoite cDNA"

/note="Vector: pCR4; TA cloning; Plasmodium yoelii
sporozoite cDNA library from salivary gland sporozoites 14
days post-infection"

ORIGIN

Query Match 10.7%; Score 18; DB 4; Length 477;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 125 AATGCTGCTGTAATTC 142
|||||

Db 221 AATGCTGCTGTAATTC 204
|||||

RESULT 15

PT003115U/c

LOCUS

DEFINITION PT003115U 483 bp DNA linear GSS 29-MAY-2003
Paramacium tetraurelia sequence M03E08u of the end of plasmid
PT003115, genomic survey sequence.

ACCESSION

AL446451

```

VERSION      AL446451.1  GI:11121726
KEYWORDS     GSS.
SOURCE       Parametium tetraurelia
ORGANISM     Parametium tetraurelia
              Eukaryota; Alveolata; Ciliophora; Oligohymenophorea; Peniculida;
              Parametium.
REFERENCE    1
AUTHORS      Keller,A.M. and Cohen,J.
TITLE        An indexed genomic library for Parametium complementation cloning
JOURNAL      J. Eukaryot. Microbiol. 47 (1), 1-6 (2000)
MEDLINE      20114709
PUBMED       10651287
REFERENCE    2
AUTHORS      Dessen,P., Zagulski,M., Gromadka,R., Plattner,H., Kissmehl,R.,
              Meyer,E., Betermier,M., Schultz,J.E., Linder,J.U., Pearlman,R.E.,
              Kung,C., Forney,J., Satir,B.H., Van Houten,J.L., Keller,A.M.,
              Froissard,M., Sperling,L. and Cohen,J.
TITLE        Parametium genome survey: a pilot project
JOURNAL      Trends Genet. 17 (6), 306-308 (2001)
MEDLINE      21273563
PUBMED       11377780
REFERENCE    3
AUTHORS      Gromadka,R. and Zagulski,M.
TITLE        Random sequencing of the Parametium macronuclear genome
JOURNAL      Unpublished
REMARK       Institute of Biochemistry and Biophysics, Polish Academy of
              Sciences, Warsaw, Poland
REFERENCE    4
AUTHORS      Cohen,J. and Sperling,L.
TITLE        Direct Submission
JOURNAL      Submitted (01-NOV-2000) Parametium Genome Survey Project, Centre de
              Genetique Moleculaire, Centre National de la Recherche
              Scientifique, 91198 Gif-sur-Yvette, France. E-mail:
              sperling@cgm.cnrs-gif.fr
COMMENT      The present survey of the Parametium tetraurelia macronuclear
              genome consists of end sequences of a library of random 4-12 kb
              fragments obtained by Sau3A partial digestion of macronuclear DNA
              cloned in the BamHI site of pBSLKS-. See [4].
              Genes are predicted from matches to other sequences. For more
              information about this sequence or the Parametium Project, see
              http://parametium.cgm.cnrs-gif.fr.
FEATURES     source
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              Location/Qualifiers
              /organism="Parametium tetraurelia"
              /macronuclear
              /mol_type="genomic DNA"
              /strain="stock d4-2"
              /db_xref="taxon:5888"
ORIGIN
Query Match      10.7%; Score 18; DB 9; Length 483;
Best Local Similarity 100.0%; Pred.No. 69;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 137 AATTTCGAGGATGAGA 154
Db 418 AATTTCGAGGATGAGA 401

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Search completed: August 26, 2005, 23:31:23
 Job time : 2015.75 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 26, 2005, 17:02:31 ; Search time 117.487 Seconds
(without alignments)
2465.133 Million cell updates/sec

Title: us-10-617-978-14_COPY_64_240

Perfect score: 177

Sequence: 1 gctgacgtccggaaacta.....atggaacgtgaaggtctga 177

Scoring table: OLIGO NUC

Gapop 60.0 , Gapext 60.0

Searched: 1202784 seqs, 818138359 residues

Word size : 0

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents NA.*

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- 2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/PCRTUS_COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	17	9.6	396	4	US-09-640-173-93
C 2	17	9.6	396	4	US-09-713-550-93
C 3	17	9.6	396	4	US-09-825-294-93
C 4	17	9.6	396	4	US-09-970-966-93
C 5	17	9.6	1083	4	US-09-602-777A-259
C 6	17	9.6	3662	4	US-09-907-794A-289
C 7	17	9.6	3662	4	US-09-905-125A-289
C 8	17	9.6	3662	4	US-09-902-775A-289
C 9	17	9.6	3662	4	US-09-906-700-289
C 10	17	9.6	3662	4	US-09-903-603A-289
C 11	17	9.6	3662	4	US-09-904-920A-289
C 12	17	9.6	3662	4	US-09-905-064-289
C 13	17	9.6	3662	4	US-09-905-381A-289
C 14	17	9.6	3662	4	US-09-906-618-289
C 15	17	9.6	4053	4	US-09-907-794A-293
C 16	17	9.6	4053	4	US-09-905-125A-293
C 17	17	9.6	4053	4	US-09-902-775A-293
C 18	17	9.6	4053	4	US-09-906-700-293
C 19	17	9.6	4053	4	US-09-903-603A-293
C 20	17	9.6	4053	4	US-09-904-920A-293
C 21	17	9.6	4053	4	US-09-905-064-293
C 22	17	9.6	4053	4	US-09-905-381A-293
C 23	17	9.6	4053	4	US-09-906-618-293
C 24	17	9.6	145241	4	US-09-949-016-17394
C 25	17	9.6	145241	4	US-09-949-016-17395
C 26	16	9.0	601	4	US-09-949-016-157499
C 27	16	9.0	601	4	US-09-949-016-157606

Sequence 2697, Ap
Sequence 6, Appli
Sequence 17042, A
Sequence 17043, A
Sequence 12535, A
Sequence 17476, A
Sequence 19, Appl
Sequence 15, Appl
Sequence 15, Appl
Sequence 11969, A
Sequence 11930, A
Sequence 16601, A
Sequence 2, Appli
Sequence 17565, A
Sequence 16137, A
Sequence 16138, A
Sequence 16664, A

ALIGNMENTS

RESULT 1

US-09-640-173-93/c
; Sequence 93, Application US/09640173
; Patent No. 6613515

GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun

; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: OVARIAN TUMOR SEQUENCES AND

; TITLE OF INVENTION: METHODS OF USE THEREFOR
; FILE REFERENCE: 210121.484C2

; CURRENT APPLICATION NUMBER: US/09/640,173
; CURRENT FILING DATE: 2000-08-15

; NUMBER OF SEQ ID NOS: 196
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 93
; LENGTH: 396

; TYPE: DNA

; ORGANISM: Homo sapien
; FEATURE:

; NAME/KEY: misc feature
; LOCATION: (1)..(396)

; OTHER INFORMATION: n = A,T,C or G
US-09-640-173-93

Query Match 9.6%; Score 17; DB 4; Length 396;

Best Local Similarity 100.0%; Pred. No. 11;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 149 TTCTGAAGATGAGAAC 165

Db 199 TTCTGAAGATGAGAAC 183

RESULT 2

US-09-713-550-93/c

; Sequence 93, Application US/09713550
; Patent No. 6617109

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Stolk, John A.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF OVARIAN CANCER

; FILE REFERENCE: 210121.484C4

; CURRENT APPLICATION NUMBER: US/09/713,550
; CURRENT FILING DATE: 2000-11-14

; NUMBER OF SEQ ID NOS: 205
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 93

; LENGTH: 396

; TYPE: DNA

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; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(396)
; OTHER INFORMATION: n = A,T,C or G
US-09-713-550-93

Query Match          9.6%; Score 17; DB 4; Length 396;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      149 TTCTGAAGGATGAGAAC 165
Db      199 TTCTGAAGGATGAGAAC 183

RESULT 3
US-09-825-294-93/c
; Sequence 93, Application US/09825294
; Patent No. 6710170
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Stolk, John A.
; APPLICANT: Algate, Paul A.
; APPLICANT: Fling, Steven P.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; TREATMENT OF OVARIAN CANCER
; FILE REFERENCE: 210121.484C5
; CURRENT APPLICATION NUMBER: US/09/825,294
; CURRENT FILING DATE: 2001-04-03
; NUMBER OF SEQ ID NOS: 215
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 93
; LENGTH: 396
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(396)
; OTHER INFORMATION: n = A,T,C or G
US-09-825-294-93

Query Match          9.6%; Score 17; DB 4; Length 396;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      149 TTCTGAAGGATGAGAAC 165
Db      199 TTCTGAAGGATGAGAAC 183

RESULT 4
US-09-970-966-93/c
; Sequence 93, Application US/09970966
; Patent No. 6720146
; GENERAL INFORMATION:
; APPLICANT: Stolk, John A.
; APPLICANT: Molesh, David Alan
; APPLICANT: Fling, Steven P.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; OF OVARIAN CANCER
; FILE REFERENCE: 210121.484C6
; CURRENT APPLICATION NUMBER: US/09/970,966
; CURRENT FILING DATE: 2001-10-02
; NUMBER OF SEQ ID NOS: 215
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 93
; LENGTH: 396
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(396)
; OTHER INFORMATION: n = A,T,C or G
US-09-970-966-93

Query Match          9.6%; Score 17; DB 4; Length 396;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      149 TTCTGAAGGATGAGAAC 165
Db      199 TTCTGAAGGATGAGAAC 183

RESULT 5
US-09-602-777A-259/c
; Sequence 259, Application US/09602777A
; Patent No. 6831165
; GENERAL INFORMATION:
; APPLICANT: Pompeius, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; INVOLVED IN HOMEOSTASIS AND ADAPTATION
; FILE REFERENCE: BGI-128CP
; CURRENT APPLICATION NUMBER: US/09/602,777A
; CURRENT FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: DE 19931636.8
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19932125.6
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932126.4
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932127.2
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932128.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932129.9
; PRIOR FILING DATE: 1999-07-19
; PRIOR APPLICATION NUMBER: DE 19932226.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932920.6
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932922.2
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; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932930.3
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932933.8
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932935.4
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932973.7
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933002.6
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933003.4
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933005.0
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933006.9
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19941378.9
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941379.7
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941390.8
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; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941391.6
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19942088.2
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 442
; SEQ ID NO 259
; LENGTH: 1083
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (101)..(1060)
; OTHER INFORMATION: RXN01466
US-09-602-777A-259

Query Match 9.6%; Score 17; DB 4; Length 1083;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 127 GCCTTCCCAATGCTGGTG 143
|||||
Db 877 GCCTTCCCAATGCTGGTG 861

RESULT 6

US-09-907-794A-289/c
; Sequence 289, Application US/09907794A
; Patent No. 6635468

; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tamas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/907,794A

; CURRENT FILING DATE: 2001-07-17

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

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; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 289
; LENGTH: 3662
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-907-794A-289

Query Match 9.6%; Score 17; DB 4; Length 3662;

Best Local Similarity 100.0%; Pred. No. 12;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 149 TTCTGAAGATGAGAAC 165

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Db 2818 TTCTGAAGATGAGAAC 2802

RESULT 7

US-09-905-125A-289/c

; Sequence 289, Application US/09905125A

; Patent No. 6664376

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tamas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/905,125A

; CURRENT FILING DATE: 2001-07-12

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 289
; LENGTH: 3662
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-905-125A-289

Query Match 9.6%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 149 TTCTGAAGGATGAGAAC 165
Db 2818 TTCTGAAGGATGAGAAC 2802

RESULT 8
US-09-902-775A-289/c
; Sequence 289, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 289
; LENGTH: 3662
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-902-775A-289

Query Match 9.6%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 149 TTCTGAAGGATGAGAAC 165
Db 2818 TTCTGAAGGATGAGAAC 2802

RESULT 9
US-09-906-700-289/c
; Sequence 289, Application US/09906700
; Patent No. 6723535
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Geritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906,700
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 289
LENGTH: 3662
TYPE: DNA
ORGANISM: Homo Sapien

US-09-906-700-289

Query Match 9.6%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 149 TTCTGAAGATGAGAAC 165
DB 2818 TTCTGAAGATGAGAAC 2802

RESULT 10
US-09-903-603A-289/c
Sequence 289, Application US/09903603A
Patent No. 6767995
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Geritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: GNE.16182C12
CURRENT APPLICATION NUMBER: US/09/903,603A
CURRENT FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 289
LENGTH: 3662
TYPE: DNA

; ORGANISM: Homo Sapien
US-09-903-603A-289

Query Match 9.6%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 149 TTCTGAAGGATGAGAAC 165
|||||
Db 2818 TTCTGAAGGATGAGAAC 2802

RESULT 11

US-09-904-920A-289/c
; Sequence 289, Application US/09904920A

; Patent No. 6806352

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Kpan, James

; APPLICANT: Páoni, Nicholas F.

; APPLICANT: Róy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/904,920A

; PRIOR FILING DATE: 2001-07-13

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05

; PRIOR APPLICATION NUMBER: PCT/US99/28214

; PRIOR FILING DATE: 1999-11-29

; PRIOR APPLICATION NUMBER: PCT/US99/28313

; PRIOR FILING DATE: 1999-11-30

; PRIOR APPLICATION NUMBER: PCT/US99/28564

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/28565

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 289
; LENGTH: 3662
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-904-920A-289

Query Match 9.6%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 149 TTCTGAAGGATGAGAAC 165
|||||
Db 2818 TTCTGAAGGATGAGAAC 2802

RESULT 12

US-09-909-064-289/c

; Sequence 289, Application US/09909064

; Patent No. 6818449

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/909,064

; PRIOR FILING DATE: 2001-07-18

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 289
;; LENGTH: 3662
;; TYPE: DNA
;; ORGANISM: Homo Sapien
US-09-909-064-289

Query Match 9.6%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 149 TTCTGAAGGATGAGAAC 165
|||||
Db 2818 TTCTGAAGGATGAGAAC 2802

RESULT 13

US-09-905-381A-289/c
; Sequence 289, Application US/09905381A
; Patent No. 6818746

;; GENERAL INFORMATION:
;; APPLICANT: Genentech, Inc.

;; APPLICANT: Ashkenazi, Avi
;; APPLICANT: Botstein, David
;; APPLICANT: Desnovers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, A.
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, Christopher J.

;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Hillan, Kenneth, J.
;; APPLICANT: Kljavin, Ivar J.
;; APPLICANT: Mather, Jennie P.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William, I.

;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: 10466-14

;; CURRENT APPLICATION NUMBER: US/09/905,381A
;; CURRENT FILING DATE: 2001-07-13
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: 2000-02-22

;; PRIOR APPLICATION NUMBER: US 60/143,048
;; PRIOR FILING DATE: 1999-07-07
;; PRIOR APPLICATION NUMBER: US 60/145,698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: US 60/146,222
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/20944
;; PRIOR FILING DATE: 1999-09-13
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 289
;; LENGTH: 3662
;; TYPE: DNA
;; ORGANISM: Homo Sapien
US-09-905-381A-289

Query Match 9.6%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 149 TTCTGAAGGATGAGAAC 165
|||||
Db 2818 TTCTGAAGGATGAGAAC 2802

RESULT 14

US-09-906-618-289/c
; Sequence 289, Application US/09906618
; Patent No. 6828146

;; GENERAL INFORMATION:
;; APPLICANT: Genentech, Inc.

;; APPLICANT: Ashkenazi, Avi
;; APPLICANT: Botstein, David
;; APPLICANT: Desnovers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, A.
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, Christopher J.
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Hillan, Kenneth, J.
;; APPLICANT: Kljavin, Ivar J.
;; APPLICANT: Mather, Jennie P.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.

```
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,618
; CURRENT FILING DATE: 2001-07-16
; PRIOR FILING DATE: 2000-02-22
; PRIOR FILING DATE: 1999-07-07
; PRIOR FILING DATE: 1999-07-26
; PRIOR FILING DATE: 1999-07-28
; PRIOR FILING DATE: 1999-07-28
; PRIOR FILING DATE: 1999-09-08
; PRIOR FILING DATE: 1999-09-13
; PRIOR FILING DATE: 1999-09-15
; PRIOR FILING DATE: 1999-09-15
; PRIOR FILING DATE: 1999-09-15
; PRIOR FILING DATE: 1999-10-05
; PRIOR FILING DATE: 1999-11-29
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; PRIOR FILING DATE: 1999-12-02
; PRIOR FILING DATE: 1999-12-02
; PRIOR FILING DATE: 1999-12-02
; PRIOR FILING DATE: 1999-12-16
; PRIOR FILING DATE: 1999-12-20
; PRIOR FILING DATE: 1999-12-20
; PRIOR FILING DATE: 1999-12-20
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 289
; LENGTH: 3662
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-906-618-289
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Query Match          9.6%; Score 17; DB 4; Length 3662;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      149 TTCTGAAGGATGAGAAC 165
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Db      2818 TTCTGAAGGATGAGAAC 2802
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RESULT 15
US-09-907-794A-293/c
; Sequence 293, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
```

```
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
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; LENGTH: 4053
; TYPE: DNA
; ORGANISM: Homo Sapien
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Search completed: August 26, 2005, 18:46:52

Job time : 118.487 secs



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